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# **Technical Report for MNDM Assessment Purposes, 2019 Trenching Program**

## **Huronian Property**

Moss Township, Thunder Bay Mining Division  
Ontario, Canada

Prepared For:

**Kesselrun Resources Ltd.**

Prepared By:  
Leah Clapp



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## 2 Introduction

The Huronian Property consists of 4 patents and 154 claims covering an area of 5163 hectares within Moss Township in the Thunder Bay Mining Division. The property is fully owned by Kesselrun Resources Ltd. (“**Kesselrun**”) and located approximately 110 km west of Thunder Bay, Ontario along Trans-Canada Hwy 11.

Kesselrun contracted Fladgate Exploration Consulting Corporation (“**Fladgate**”) to conduct an exploration program on its Huronian Property starting August 18<sup>th</sup>, 2019. Fladgate provided all the required geological, geotechnical, and sub-contractor services on the program described herein. The exploration program consisted of structural mapping, mechanized stripping, and channel sampling. All trenching activities ceased on September 6<sup>th</sup>, 2019, while channel sampling and mapping continued until October 20<sup>th</sup>, 2019.

A work permit was issued to Kesselrun Resources Ltd. No. PR-16-10918 valid 2016/09/08-2019/09/07 covering claim/lease/license of occupation numbers:

677468 677469 677470 677471 677472 677473 677474 677475 677476 677477 677478 677479 786521 786522 786523 786524 786525 786526  
 786527 786528 786529 786541 786542 786543 786544 786545 813157 813158 813159 813160 813161 813162 813163 813164 813165 813166  
 835178 835179 835184 835185 835186 835187 835188 835189 835190 835195 835196 835197 835304 835305 835306 835307 835308 835309  
 835310 835311 835312 835313 863760 873515 873516 873517 873518 873519 873520 873522 1022635 1022636 1022637 1135465 1135466  
 1157496 1157497 1157666 1157667 1157668 1157670 1157671 1164874 1164875 1164876 1164877 1172315 1172316 1172317 1172340  
 1172345 1172346 1172347 1172348 1172349 1172350 1172355 1172356 1172365 1172366 1172367 1172368 1172369 1172375 1172385  
 1172386 1172387 1172388 1172395 1172396 1195937 1195940 1196147 1196239 1196240 1196870 1196921 1196923 1196924 1202036  
 1202264 1202265 1202302 1205201 1205202 1205203 1205204 1205287 1209440 1209441 1209470 1209697 1209698 1209770 1210243  
 1210245 1210776 1210792 1215147 1215148 1215149 1215450 1215451 1215452 1215453 1215454 1215751 1215752 1215758 1215760  
 1215831 1215859 1217105 1224629 3001505 3001506 3001507 4000439 4000001 4040116 4040116 4282611

## 3 Terms of Reference

This report was prepared at the request of Kesselrun for the use of filing assessment as required under the Ontario Mining Act.

Unless otherwise noted, Universal Transverse Mercator (“UTM”) coordinates are provided in the datum of NAD83 Zone 15 North.

## 4 Disclaimer

The author disclaims responsibility for portions of the current report that rely on information from historic assessment files and government maps and reports which may not have been prepared in compliance with current standards.



## 5 Property Description and Location

The Huronian property is located in Moss Township within the Thunder Bay Mining Division in Northwestern Ontario, approximately 110 km west of Thunder Bay (Figure). The property is centered on UTM coordinates 665,000 mE, 5,380,000 mN (NAD83 Zone 15N), and consists of 154 contiguous unpatented mining claims and 4 patents. The property is situated within NTS map sheet 52B/10 and covers 5163 hectares (Figure 1). A list of all claims and patents comprising the Huronian Property is provided in **Table 1** and **Table 2**. The mineral rights for all claims and patents are wholly owned by Kesselrun, as well as the surface rights to the 2 patents covering the historic Ardeen mine.

**Table 1 – List of Huronian Claims**

Legacy Claim ID	Claim Number	Township	Units	Ha	Recording Date	% Option	Ownership
677468	125040	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677469	125040	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677470	245566	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677471	125040	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677472	118090	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677473	118090	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677474	124511	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677475	124511	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677476	118090	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677477	118090	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677478	134356	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
677479	134356	MOSS	1	16	1983-Jan-25	100%	Kesselrun Resources Ltd.
786521	178231	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786522	197781	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786523	169698	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786524	121556	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786525	121556	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786526	178231	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786527	245544	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786528	121556	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786529	121556	MOSS	1	16	1984-Jun-08	100%	Kesselrun Resources Ltd.
786541	178231	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
786542	153748	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
786543	153748	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
786544	186922	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
786545	178231	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813157	207613	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813158	207612	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813159	198397	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813160	132986	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813161	132986	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813162	132986	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813163	118166	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813164	132986	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813165	132986	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
813166	198397	MOSS	1	16	1984-Jun-26	100%	Kesselrun Resources Ltd.
835178	134283	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835179	170341	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835184	134283	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835185	266198	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835186	102823	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835187	170341	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835188	149616	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835189	102823	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835190	102823	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835195	220466	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835196	103014	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835197	103014	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
835304	118090	MOSS	1	16	1985-Dec-03	100%	Kesselrun Resources Ltd.
835305	117995	MOSS	1	16	1985-Dec-03	100%	Kesselrun Resources Ltd.
835306	209878	MOSS	1	16	1985-Dec-03	100%	Kesselrun Resources Ltd.
835307	182467	MOSS	1	16	1985-Dec-03	100%	Kesselrun Resources Ltd.
835308	182467	MOSS	1	16	1985-Dec-03	100%	Kesselrun Resources Ltd.
835309	183156	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
835310	102623	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
835311	124481	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
835312	125020	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.



Legacy Claim ID	Claim Number	Township	Units	Ha	Recording Date	% Option	Ownership
835313	125020	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
863760	170895	MOSS	1	16	1985-Nov-27	100%	Kesselrun Resources Ltd.
873515	125020	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
873516	125020	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
873517	207642	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
873518	102891	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
873519	170367	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
873520	125738	MOSS	1	16	1985-Dec-30	100%	Kesselrun Resources Ltd.
873522	118090	MOSS	1	16	1986-Apr-21	100%	Kesselrun Resources Ltd.
1022635	102889	MOSS	3	48	1997-Feb-06	100%	Kesselrun Resources Ltd.
1022636	102623	MOSS	3	48	1997-Jan-27	100%	Kesselrun Resources Ltd.
1022637	117995	MOSS	2	32	1997-Jan-27	100%	Kesselrun Resources Ltd.
1135465	217821	MOSS	1	16	1990-Nov-05	100%	Kesselrun Resources Ltd.
1135466	189105	MOSS	1	16	1990-Nov-05	100%	Kesselrun Resources Ltd.
1157496	118204	MOSS	1	16	1990-Nov-05	100%	Kesselrun Resources Ltd.
1157497	117967	MOSS	1	16	1990-Nov-05	100%	Kesselrun Resources Ltd.
1157666	125040	MOSS	1	16	1990-Nov-06	100%	Kesselrun Resources Ltd.
1157667	196949	MOSS	1	16	1990-Nov-06	100%	Kesselrun Resources Ltd.
1157668	188405	MOSS	1	16	1990-Nov-06	100%	Kesselrun Resources Ltd.
1157670	125040	MOSS	1	16	1990-Nov-06	100%	Kesselrun Resources Ltd.
1157671	188405	MOSS	1	16	1990-Nov-06	100%	Kesselrun Resources Ltd.
1164874	189105	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1164875	189106	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1164876	188405	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1164877	207621	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172315	118204	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172316	118204	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172317	102971	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172340	189105	MOSS	1	16	1990-Nov-02	100%	Kesselrun Resources Ltd.
1172345	118203	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172346	118203	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172347	118203	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172348	188405	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172349	196949	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172350	125040	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172355	273563	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172356	170895	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172365	219034	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172366	102889	MOSS	1	16	1990-Nov-01	100%	Kesselrun Resources Ltd.
1172367	170341	MOSS	1	16	1990-Nov-01	100%	Kesselrun Resources Ltd.
1172368	170341	MOSS	1	16	1990-Nov-01	100%	Kesselrun Resources Ltd.
1172369	170341	MOSS	1	16	1990-Nov-01	100%	Kesselrun Resources Ltd.
1172375	102889	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172385	118203	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172386	102891	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172387	118179	MOSS	1	16	1990-Nov-01	100%	Kesselrun Resources Ltd.
1172388	170341	MOSS	1	16	1990-Nov-01	100%	Kesselrun Resources Ltd.
1172395	102825	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1172396	102825	MOSS	1	16	1990-Oct-31	100%	Kesselrun Resources Ltd.
1195937	125843	MOSS	1	16	1992-Jul-22	100%	Kesselrun Resources Ltd.
1195940	102713	MOSS	1	16	1992-Jul-22	100%	Kesselrun Resources Ltd.
1196147	103132	MOSS	4	64	1993-Oct-04	100%	Kesselrun Resources Ltd.
1196239	117981	MOSS	2	32	1994-Apr-19	100%	Kesselrun Resources Ltd.
1196240	125839	MOSS	4	64	1994-Apr-19	100%	Kesselrun Resources Ltd.
1196870	102845	MOSS	12	192	1996-Nov-01	100%	Kesselrun Resources Ltd.
1196921	102825	MOSS	4	64	1994-Mar-14	100%	Kesselrun Resources Ltd.
1196923	188405	MOSS	1	16	1994-Oct-05	100%	Kesselrun Resources Ltd.
1196924	196949	MOSS	1	16	1994-Nov-02	100%	Kesselrun Resources Ltd.
1202036	102438	MOSS	4	64	1994-Jan-12	100%	Kesselrun Resources Ltd.
1202264	118302	MOSS	2	32	1994-Aug-11	100%	Kesselrun Resources Ltd.
1202265	118302	MOSS	2	32	1994-Aug-11	100%	Kesselrun Resources Ltd.
1202302	103322	MOSS	6	96	1994-Sep-16	100%	Kesselrun Resources Ltd.
1205201	124510	MOSS	1	16	1994-Dec-06	100%	Kesselrun Resources Ltd.
1205202	171623	MOSS	1	16	1994-Dec-06	100%	Kesselrun Resources Ltd.
1205203	117960	MOSS	1	16	1994-Dec-06	100%	Kesselrun Resources Ltd.
1205204	125716	MOSS	2	32	1994-Dec-06	100%	Kesselrun Resources Ltd.
1205287	117960	MOSS	2	32	1995-Sep-27	100%	Kesselrun Resources Ltd.



Legacy Claim ID	Claim Number	Township	Units	Ha	Recording Date	% Option	Ownership
1209440	117981	MOSS	2	32	1994-Dec-13	100%	Kesselrun Resources Ltd.
1209441	124511	MOSS	2	32	1994-Dec-13	100%	Kesselrun Resources Ltd.
1209470	154306	MOSS	4	64	1994-Aug-23	100%	Kesselrun Resources Ltd.
1209697	266226	MOSS	1	16	1995-Aug-30	100%	Kesselrun Resources Ltd.
1209698	117981	MOSS	10	160	1996-Aug-06	100%	Kesselrun Resources Ltd.
1209770	189081	MOSS	2	32	1996-Jan-16	100%	Kesselrun Resources Ltd.
1210243	126380	MOSS	2	32	1996-Apr-24	100%	Kesselrun Resources Ltd.
1210245	102713	MOSS	3	48	1996-Apr-29	100%	Kesselrun Resources Ltd.
1210776	102713	MOSS	3	48	1996-Aug-14	100%	Kesselrun Resources Ltd.
1210792	117960	MOSS	11	176	1996-Oct-25	100%	Kesselrun Resources Ltd.
1215147	102846	MOSS	10	160	1996-Nov-04	100%	Kesselrun Resources Ltd.
1215148	273019	MOSS	1	16	1996-Nov-04	100%	Kesselrun Resources Ltd.
1215149	266226	MOSS	2	32	1996-Nov-04	100%	Kesselrun Resources Ltd.
1215450	118168	MOSS	2	32	1996-Aug-14	100%	Kesselrun Resources Ltd.
1215451	118168	MOSS	8	128	1996-Aug-14	100%	Kesselrun Resources Ltd.
1215452	117989	MOSS	8	128	1996-Aug-14	100%	Kesselrun Resources Ltd.
1215453	102713	MOSS	15	240	1996-Aug-14	100%	Kesselrun Resources Ltd.
1215454	103133	MOSS	10	160	1996-Aug-14	100%	Kesselrun Resources Ltd.
1215751	102823	MOSS	1	16	1996-Nov-04	100%	Kesselrun Resources Ltd.
1215752	102823	MOSS	4	64	1996-Nov-04	100%	Kesselrun Resources Ltd.
1215758	169698	MOSS	1	16	1996-Dec-13	100%	Kesselrun Resources Ltd.
1215760	102889	MOSS	3	48	1997-May-06	100%	Kesselrun Resources Ltd.
1215831	124511	MOSS	2	32	1996-Nov-08	100%	Kesselrun Resources Ltd.
1215859	285704	MOSS	1	16	1996-Nov-25	100%	Kesselrun Resources Ltd.
1217105	102623	MOSS	1	16	1996-Dec-13	100%	Kesselrun Resources Ltd.
1224629	117995	MOSS	2	32	1994-Aug-11	100%	Kesselrun Resources Ltd.
3001505	126387	MOSS	11	176	2002-Feb-07	100%	Kesselrun Resources Ltd.
3001506	126388	MOSS	4	64	2002-Feb-07	100%	Kesselrun Resources Ltd.
3001507	103014	MOSS	2	32	2002-Feb-07	100%	Kesselrun Resources Ltd.

**Table 2 – List of Huronian Patents**

Township	Name	G number	Area (ha)	Anniversary Date	Description	Units
MOSS	33B	G-4000001	129.55	January 1, 2020	Surface and Mining rights (#62311-011)	8.0969
MOSS	1H					
MOSS	A6	G-4040116	274.79	January 1, 2020	Mining rights (#62311-010)	17.1744
MOSS	A7					



Figure 1 – Huronian Property



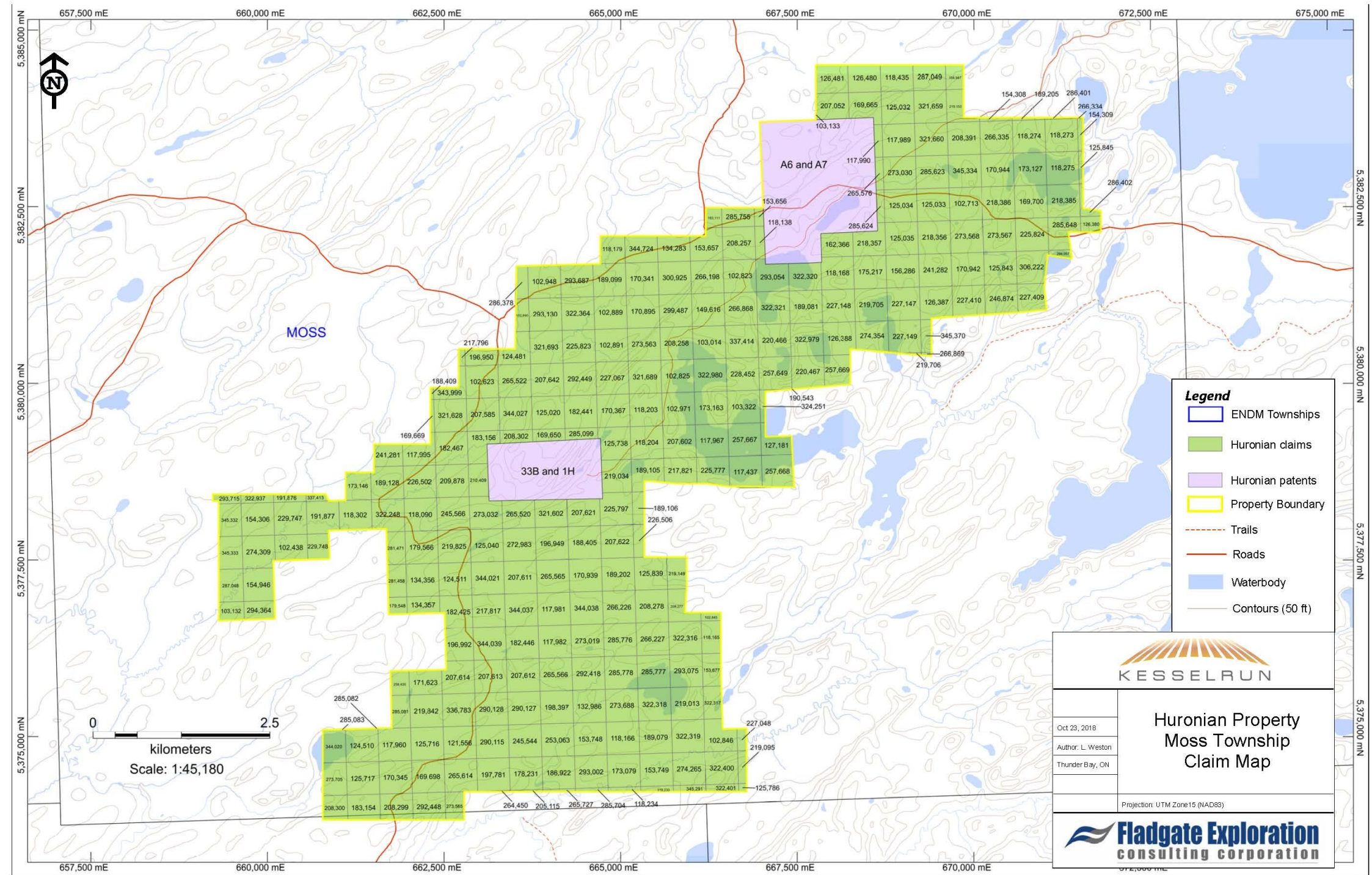
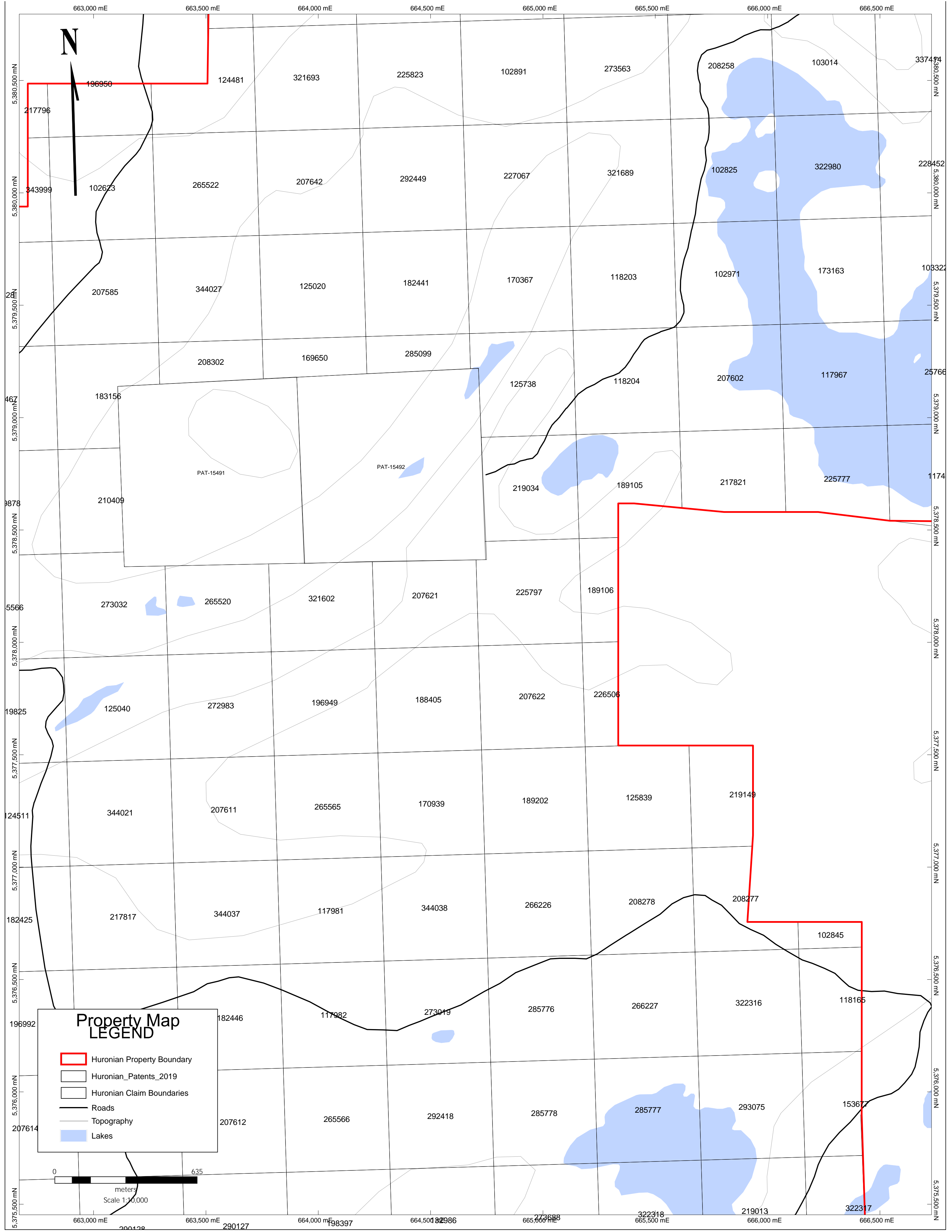
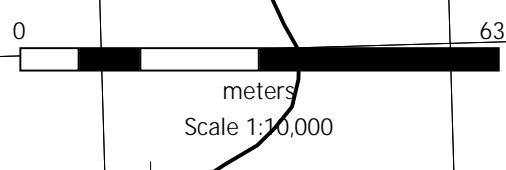


Figure 2 – Huronian Claim Map



### Property Map LEGEND

- Huronian Property Boundary
- Huronian Patents\_2019
- Huronian Claim Boundaries
- Roads
- Topography
- Lakes



Map grid coordinates (mE, mN):

663,000	663,500	664,000	664,500	665,000	665,500	666,000	666,500
5,375,500	5,376,000	5,376,500	5,377,000	5,377,500	5,378,000	5,378,500	5,379,000
5,379,500	5,380,000	5,380,500	5,381,000	5,381,500	5,382,000	5,382,500	5,383,000



## 6 Access, Local Resources, and Infrastructure

The property is accessible year-round, as it is located 5 km south of Trans-Canada Hwy 11, which is a major east-west route connecting Thunder Bay to Fort Francis (**Figure 1**). After driving 64 km west of Thunder Bay on Hwy 11-17, and another 62 km west along Hwy 11, access to the property is gained along Swamp Road, a well-maintained gravel road that loops around the entire property (**Figure 1**). There are many other tertiary logging roads that cross the property, providing access to every claim and patent. Minor bush trails are traveled by ATV to reach some central areas.

Atikokan is the nearest town (population ~2,700), located roughly 40 km west on Hwy 11 from the Swamp Road turnoff. Most supplies are readily available in Atikokan. Thunder Bay is ~110 km to the east and is the nearest large regional population centre in Ontario, with many services and amenities for industrial, educational, and leisure activities. Local experienced labour is readily available, as well as the regional offices of the Ministry of Northern Development and Mines (MNDM). The Thunder Bay airport has multiple daily scheduled flights to Toronto, Ottawa, Calgary, and Winnipeg, as well as some direct US international destinations.

The property is located near major rail and hydroelectric infrastructure. There are no permanent structures on the property currently. Water is available year-round from Moss Lake, and from other small lakes and creeks within the claim block.

## 7 Climate and Physiography

The Huronian Property is located within the Canadian Shield, which is a major physiographic division of Canada. The property is situated in an area of swamps, small lakes, low rolling hills, and distinct northeast-trending cliffs with abundant outcrop.

Climate in the area is typical of Northern Ontario, with cold winters and warm summers. Average January temperatures range from -11°C to -25°C, and average July temperatures are between 11°C and 25°C. Work can be done (subject to snow and freezing) for most of the year. Certain mapping and mechanized stripping activities and soil sampling are done only without snow cover, whereas drilling can occur at any time of the year.

The claims are covered with a thick secondary growth of jackpine, poplar, balsam fir, black spruce, cedar and some birch. The underbrush can be very dense with intergrowths of maple, and alder. Much of the property has been forested in different episodes and replanted with dominantly jackpine ranging from ~3-20 cm in diameter.

Rock exposures are abundant in the northern portion of the claims where topography is more pronounced. Typically outcrops in this area are found as moss-covered knolls or form regional cliffs. Total rock exposure and areas with thin overburden cover comprise approximately 10% of the property.



## 8 Geological Setting

### 8.1 Regional Geology

The Huronian Property lies within the western portion of Ontario's Superior Province, in the westernmost portion of the Wawa Subprovince, consisting of metavolcanics in greenstone belts and associated intrusive complexes. The Huronian property is part of the Shebandowan Greenstone Belt, which is roughly 2 km southwest of the boundary between the Quetico and Wawa Subprovinces. The Superior Province, the Wawa Subprovince and the Shebandowan Greenstone Belt are described in detail in the literature (e.g. Card and Poulsen, 1998; Percival and Easton, 2007). The regional geology is illustrated in **Figure 3**.

#### 8.1.1 Superior Province

The Superior Province is a major geological province comprised of Archean age rocks. It forms the core of the North American continent. In Ontario, the Superior Province makes up roughly 70% of the Canadian Shield bedrock and is surrounded by younger Grenville and Southern Provinces to the south and southeast, which comprise the remaining 30%. The Superior Province consists of alternating granite-greenstone and metasedimentary belts in the central portion, and has been subdivided into smaller subprovinces (or terranes) based on rock type: granite-greenstone plutonic and metavolcanic rocks (Uchi, Wawa, and Abitibi subprovinces), metasedimentary rocks (English River and Quetico subprovinces), plutonic granitic rocks (Winnipeg River subprovince), and high grade greenstone rocks to the north (Kapuskasung Zone). Subprovinces are commonly fault-bounded and display contrasting lithological assemblages, metamorphic and structural styles, geophysical characteristics, and ages.

The Superior Province has been tectonically stable since ~2.5 Ga. Proterozoic and younger geological activity is limited to rifting of the margins, emplacement of several mafic dyke swarms, compressional reactivation, and large-scale rotation at ~1.9 Ga, as well as failed rifting at ~1.1 Ga. With the exception of the northwestern Superior margin that was pervasively deformed and metamorphosed at ~1.8 Ga, the craton has otherwise escaped late ductile deformation. It formed as a collage of smaller continental and oceanic plates (Card, 1990; Williams et al., 1992; Stott, 1997; Percival et al., 2004, 2006), that were stitched together between ~2.72 and 2.68 Ga. Sedimentary rocks as old as ~2.48 Ga uncomfortably overlie Superior Province granites, indicating that most erosion had occurred prior to ~2.5 Ga.

The southern portion of the Superior Province (to latitude 52°N) is a major source of mineral wealth, hosting active gold and base metal mining camps associated with metavolcanics of the granite-greenstone belts. Owing to its potential for these and other commodities, the Superior Province continues to attract both grassroots and advanced mineral exploration.

#### 8.1.2 Quetico Subprovince

The Quetico terrane consists dominantly of greywacke, migmatite, and granite. No stratigraphic sequence has been established within the steeply-dipping, polydeformed and variably metamorphosed sedimentary succession; however, younging directions are dominantly to the north (Percival, 1989). Depositional age constraints indicate slightly older ages for the northern Quetico (<2.698 to >2.696 Ga; Davis et al., 1990)



than for the south (<2.692 Ga; Zaleski et al., 1999). A prominent, linear, easterly aeromagnetic grain is given by alternating sedimentary units and granitic sheets. Irregular patterns in the belt's interior correspond to dominant plutonic and migmatitic units. Incomplete seismic reflection images indicate overall gently north-dipping reflectivity and crustal thickness on the order of 35 km.

Several plutonic suites cut the metasedimentary units, including early (2.696 Ga) tonalite (Davis, 1996). An early deformation event (D1) pre-dated emplacement of a chain of Alaskan-type mafic-ultramafic intrusions in the northern Quetico terrane (e.g. Pettigrew, 2004; Pettigrew and Hattori, 2006), which are associated with alkaline plutons including nepheline syenite and carbonatite. These rocks, derived from metasomatized mantle, have ages in the range 2.69 to 2.68 Ga (Lassen, 2004) and geochemical affinities with the Archean sanukitoid suite (cf. Stern et al., 1989; Stevenson et al., 1999; Lassen, 2004). Two subsequent deformation events (D2, D3) were followed by low-pressure, high-temperature metamorphism that reached upper amphibolite and local granulite facies at circa 2.67 to 2.65 Ga (Pan et al., 1994; 1998) in the central region and greenschist facies at the margins (Percival, 1989). Coeval crust-derived granitic plutons and pegmatites include circa 2.67 Ga peraluminous granite and circa 2.65 Ga biotite granite (e.g., Southwick, 1991).

Tectonic models for the Quetico terrane have favored forearc settings (e.g., Langford and Morin, 1976; Percival and Williams, 1989; Williams, 1991; Fralick et al., 2006). Depositional ages of circa 2.698 to 2.690 Ga overlap those of late arc magmatism in the Wabigoon. The dominantly sanukitoid plutons of this age may have been triggered by slab break-off, following collision between the Wawa–Abitibi terrane and the amalgamated superterrane to the north.

### **8.1.3 *Wawa Subprovince***

The Wawa Subprovince is a granite-greenstone terrane exposed in the region that extends 900 km westward from the Kapuskasing Structural Zone to the Vermilion district of Minnesota and varies in width from approximately 50 to 200 km.

Most workers accept a correlation between the Wawa and Abitibi terranes across the transverse Kapuskasing uplift structure (Percival and West, 1994), although Jackson and Sutcliffe (1990) have argued that the Kapuskasing Structural Zone coincides with an Archean boundary between the ensimatic Abitibi Subprovince and ensialic Wawa Subprovince. Within the Wawa terrane, small remnants of Mesoarchean crust occur in the form of sporadic, circa 2.92 Ga tonalitic gneiss (Moser 1994) and 2.89 to 2.88 Ga volcanic rocks of the Hawk assemblage (Turek et al., 1992). An oceanic setting is indicated by the Hemlo-Black River (2.775 Ga), Wawa (2.745 Ga) and Greenwater and Manitouwadge assemblages (2.72 Ga), the latter with significant massive sulphide mineralization (Sage et al., 1996a, 1996b; Williams et al., 1991). Polat et al. (1998, 1999) reported a variety of oceanic magma types from the Schreiber belt, and interpreted the belt as a tectonic mélange (Polat and Kerrich, 1999, 2001).

Relatively late-stage volcanism at circa 2.695 Ga took place during D1 thrusting. Subsequent calc-alkaline to alkaline magmatism (ca. 2.689 Ga Shebandowan assemblage; Corfu and Stott, 1996) and associated coarse clastic sedimentation (Timiskaming type; <2.689 Ga) was followed by emplacement of sanukitoid plutons (2.65–2.68 Ga) and dextral transpressive D2 deformation. These circa 2.685 to 2.68 Ga tectonic events were termed the Shebandowanian phase of the Kenoran Orogeny (Stott and Corfu, 1991).

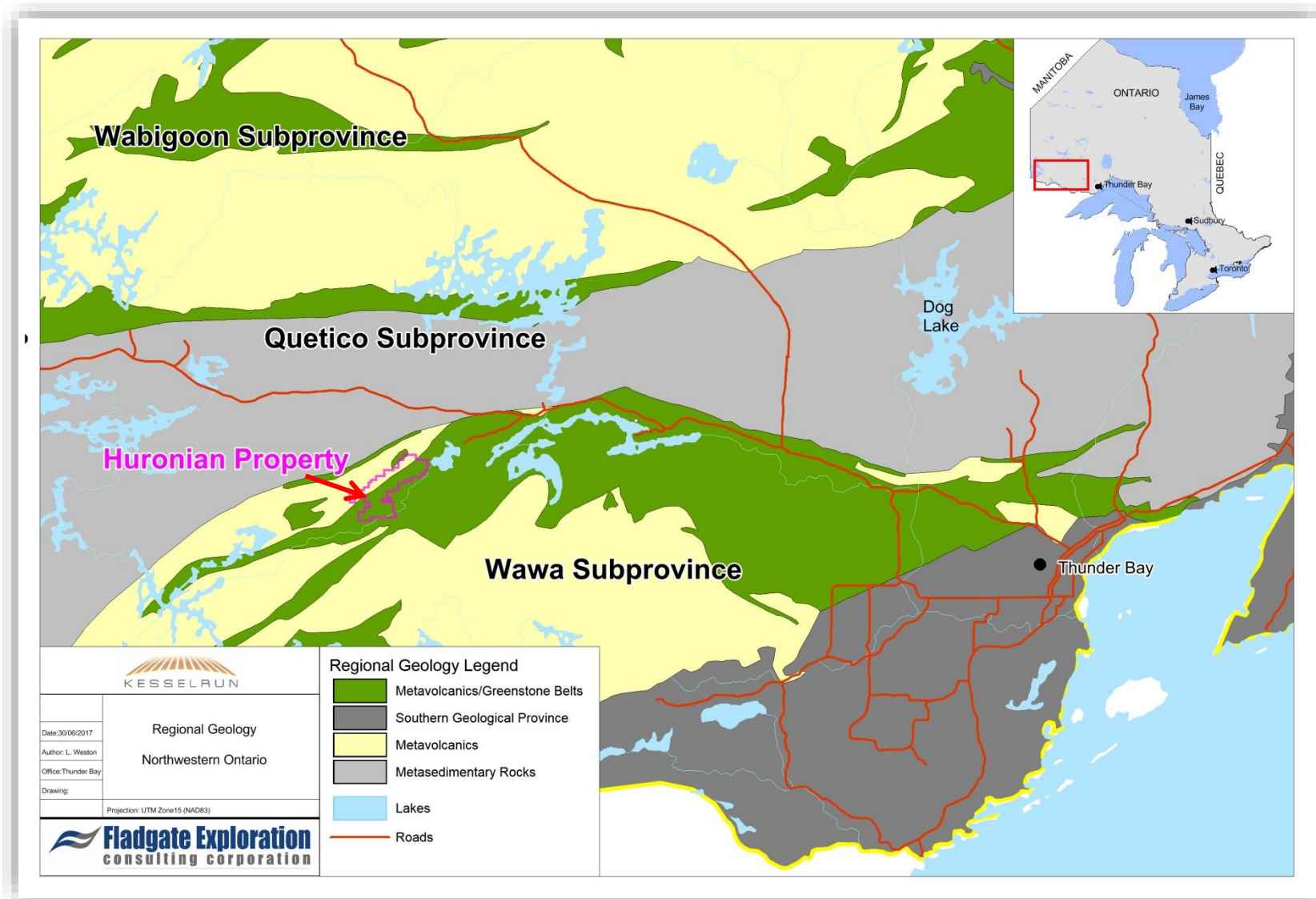


Figure 3 – Regional Geology



To the south, Archean rocks of the Wawa Subprovince are in unconformable, intrusive, and tectonic contact with Paleoproterozoic and Mesoproterozoic supracrustal and intrusive rocks of the Southern Province and the Midcontinent Rift System. To the north, they are bounded by metasedimentary rocks of the Quetico Subprovince (Card and Poulsen, 1998).

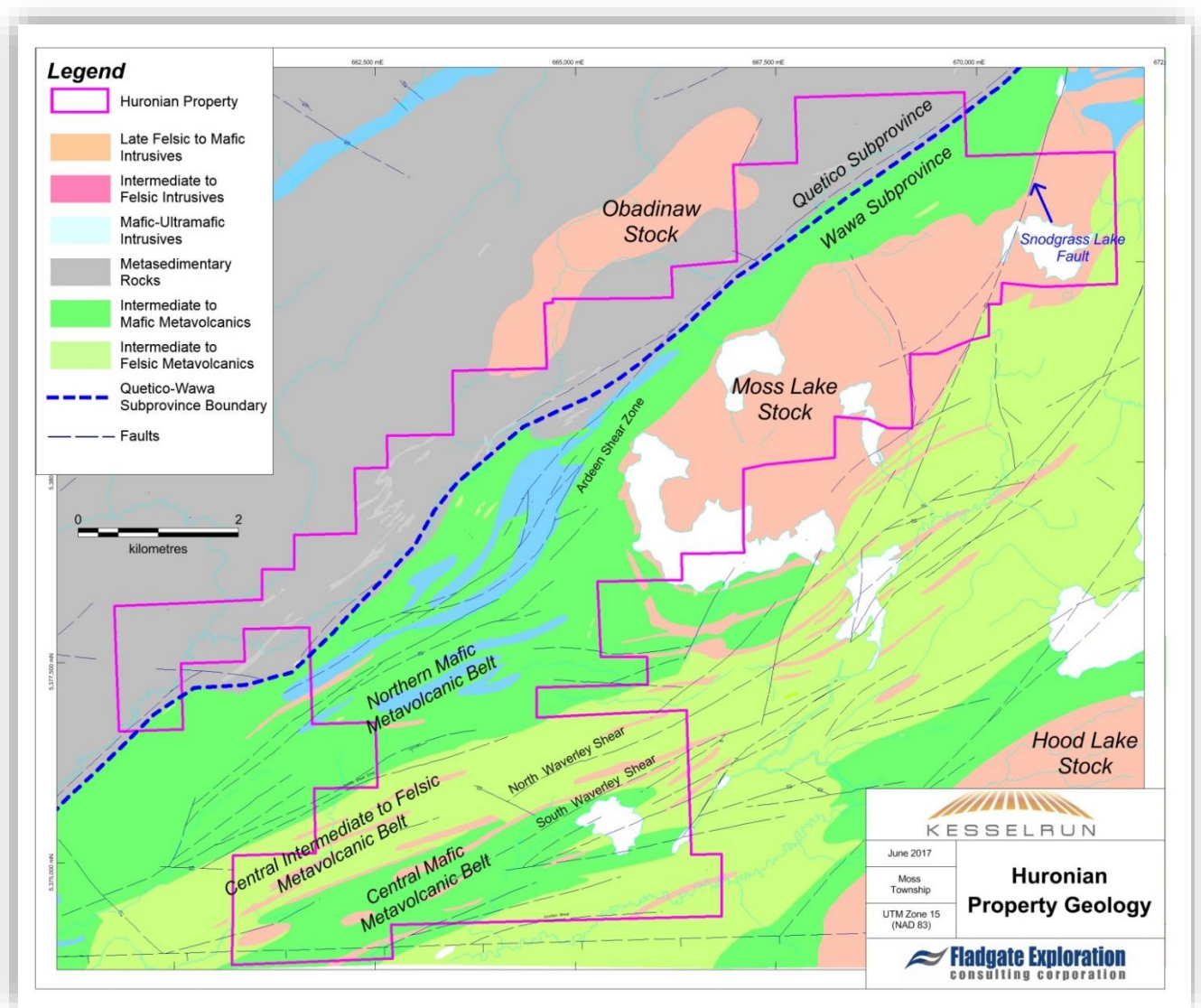
## **8.2 Local Geology**

The following description of the local geological setting is modified from Osmani (1993), Hunt (2000) and Risto and Breede (2010). A detailed property geology map can be found in **Figure 3**.

### **8.2.1 Moss Township Area/Huronian Property**

The Moss Township area is underlain by Archean rocks of the Wawa and Quetico Terranes. The supracrustal rocks forming part of the Shebandowan Greenstone Belt (SGB) of the Wawa Terrane occur in the southeast half of the township. The SGB is composed of three mafic to intermediate metavolcanic belts, the northern belt (NMB), central belt (CMB), southern belt (SMB) and a central intermediate to felsic metavolcanic belt (CFB). The three mafic to intermediate belts mainly consist of massive and pillowed flows and fragmental rocks (pillow breccia, tuff, lapilli tuff and tuff breccia). The CFB consists of massive (fine-grained to aphanitic), porphyritic and autobrecciated flows, and other fragmental rocks (tuff, lapilli tuff, tuff and pyroclastic breccia). Ironstone units form a relatively minor but widely distributed component in the mafic to intermediate metavolcanic successions and, in some cases, they occur at the interface between the mafic and felsic metavolcanic units. The CFB is approximately 13 km long. The thickest part (2.9 km) is centered between the Snodgrass and Fountain lakes. In the south-central part of the township, the CFB is split by the central mafic metavolcanic belt (CMB). The contacts between the CFB and the mafic to intermediate metavolcanic belts are both sheared and conformable.

The region encompassing the four main lakes (Burchell, Moss Lake, Snodgrass and Fountain) is exceptionally well endowed with late tectonic hydrothermal alteration, shearing and faulting. Hunt (2000) and studies referenced therein (e.g., Osmani, 1997; Stott and Corfu, 1996) provide interpretations of the geochronologic data and the regional timing correlation between gold mineralization and the sequence of tectonic events in the SGB.



**Figure 4 – Huronian Property Geology**

Metavolcanic rocks occurring along the southern portion of Moss Lake Township are interpreted by Osmani (1997) to be part of the southern mafic metavolcanic belt (SMB).

The Quetico Metasedimentary Belt (QSB), consisting of massive to thinly bedded metawacke and minor thinly bedded to finely laminated metasiltstone, occupies the northwest corner of the township. Intruding the SGB and QSB are large and small sills, dykes and stock-like bodies of gabbro, diorite and feldspar or quartz-feldspar porphyries, as well as four relatively late, composite granitoid stocks (Moss Lake, Hood Lake, Hermia Lake and Obadinaw stocks). The width of the CFB in the Snodgrass Lake area is approximately 2.5 to 3.0 km.

The regional metamorphic grade is lower greenschist facies, except near the large granitoid stocks where it reaches upper greenschist to amphibolite facies. Stratigraphic younging directions obtained from graded bedding and rare cross-bedding in the QSB and from pillowed flows, interflow





metasedimentary units, and pyroclastic units within the SGB suggesting a stratigraphic younging is predominantly to the northwest. However, southeast-facing younging directions, relatively common in the QSB and less common in the SGB, suggest the presence of small- and large- scale folds in both series of rocks. Numerous isoclinal S, Z and M folds occur in both the SGB and QSB.

Several large-scale, steeply dipping, ductile to brittle shear zones striking NE to ENE and NW cut all major rock types in the area. Movement on the NE- to ENE-trending shear zones are predominantly sinistral, whereas dextral movement is generally recorded for the NW-trending faults and shear zones.

## 9 History of Exploration on the Property

The history of exploration and mining is divided into three parts; the history of the Ardeen mine; the exploration history of the Ardeen mine area, and the history of the Pearce Lake/Moss extension area located to the south of the mine. This information was largely compiled and summarized by Ball (2009).

### 9.1 History of the Ardeen Mine

1870	Two trappers, Baptiste and Douchette discover the Ardeen vein.
1871	Peter McKellar, a prospector, stakes the ground. Mining claim H1 is patented.
1872	A 57 kg test sample returned 39.77 g/t Au and 5.5 ounces Ag.
1874	Jackfish Lake Mining Company is incorporated with McKellar as superintendent.
1875	Work on the Jackfish mine is suspended due to financial difficulties.
1882	Thomas Keefer options the property and later exercises his option to purchase. Keefer forms Huronian Mining Co.
1883-85	Huronian Mining Co. develops the vein extracting and treating between 600-700 tons of ore with a 10-ton amalgamation stamp mill from a two-compartment shaft (No 1 shaft), inclined at 80°, that was sunk on the vein to a depth of 48.2 m with two lateral levels. Tellurides associated with the ore results in poor mill recovery causing the abandonment of operations. In the summer of 1885, a new shaft (No 3) is sunk to a depth of 18.9 m with no lateral work. A 4.5-ton sample of concentrate is said to have assayed 5.3 oz/ton.
1925-26	Shields Field Development Co. acquires the mine and later organizes Moss Mine Ltd.
1927-33	Moss Mines Ltd. resurrects the property. The company is reorganized in 1931 as Moss Gold Mines Ltd. Production begins in 1932 through the No. 2 shaft sunk down to the 750-foot level (228.6 m) with some lateral development. The company goes bankrupt and suspends operations.
1934-36	Ardeen Gold Mines Ltd., which emerges from the reorganization of Moss Mine Ltd., deepens the No. 2 shaft to the 1250-foot level (381 m), constructs a cyanide mill and



continues production. In early 1935, the operation is suspended for seven months because of financial difficulties. Production is resumed, but ultimately the company declares bankruptcy and the mine closes on 10 December 1936, leaving behind 25,000 tons of ore grading 12.34 g/t Au. Since the operation ceased, the mine has never reopened.

## 9.2 History of the Ardeen Mine Area

- 1937 Erie Canadian Mines Ltd. assesses the property, both on surface and underground (plans and sections of the mine are prepared). Remaining ore is estimated at 21,985 tons at 10.79 g/t Au.
- Manhattan Investment Co. acquires the asset at auction and sells it to Kerry Gold Mines Ltd., however Kerry Gold Mines is unable to raise sufficient funds to resume operations.
- 1938 Tanton of the Ontario Geological Survey (OGS) completes the first geological mapping of the area.
- 1942 Kerry Gold Mines dismantles and liquidates the plant and equipment. It is reported that the mill clean-up recovered \$13,107 in gold and silver.
- 1957-58 Noranda Exploration Company Ltd. completed ground EM and surface mapping and trenching for base metal massive sulphides. Five diamond drill holes (309.1 m) were completed to test four EM conductors located to the northwest of the mine. Little to no assaying for gold. EM conductors attributed to graphitic schists and pyrrhotite.
- 1965-66 Cominco Ltd. undertook an airborne magnetic and EM survey and completed two diamond drill holes in the northern part of the project.
- 1968-72 Belore Mines Ltd. takes an option on the property held by Kerry Gold Mines and completes geological mapping as well as ground magnetic, EM and VLF geophysical surveys. Consultant to Belore assesses remaining ore underground as 4,485 tons averaging 6.12 g/t Au. Belore Mines Ltd. completes 5 diamond drill holes (419.7 m) during 1971 intersecting a number of high-grade mineralized intervals in the vicinity of the Fisher zone, including 1.74 m of 38.4 g/t Au and 1.74 m of 19.2 g/t Au (Hole 71-3), and 3.65 m of 41.31 g/t Au (Hole 71-5). An additional 7 holes were completed in 1972, with a best assay of 0.6 m @ 22.62 g/t Au (Hole 72-2), however the locations of two holes were not reported.
- 1970 Moss Lake Township mapped by Harris of the OGS.
- 1973 Belore Mines Ltd. purchases the mine from Kerry Gold Mines and incorporated Huronian Mines Ltd. to explore the property as a 50-50 JV (BHM).
- 1973-74 Dome Exploration (Canada) Ltd. optioned the project from BHM and completed geological mapping, sampling, gridding and 17 diamond drill holes (1,697 m) mainly to the east of the No. 2 shaft in the vicinity of the Fisher zone. A number of narrow Au intervals



- were reported with a best result of 0.36 m of 23.01 g/t Au (Hole D69-8). A ground magnetic and ground EM survey was undertaken on a further claim group to the northeast with 2 diamond drill holes completed (186.5 m), but these holes were not analyzed.
- 1973-74 Lynx-Canada Exploration and Fort Reliance Minerals (50-50 JV) option the claims covering the Minoletti zone and completed ground magnetics and EM and sampling of the Minoletti trenches. Sampling records a best assay of 25.37 g/t Au over 0.91 m. The JV drops their option.
- 1975 Troilus Mines Ltd. optioned the Minoletti zone claims and complete ground magnetic and airborne EM surveys before withdrawing.
- Nichro Mines Ltd. complete 2 diamond drill holes to the north of the Ardeen mine, but the holes are not assayed.
- The Ontario government notifies BHM of its intent to acquire the properties for a recreational park reserve. On this basis, Dome Exploration drops its option. By October, the government has purchased all of BHM's patented property rights except the mineral rights on claims 1H (Ardeen mine) and 33B and the surface rights on a small track covering the old mine shafts and dumps on 1H.
- 1976 Mill tailings optioned by Hermiston Ltd. but option terminated.
- 1978 Camflo Mines Ltd. optioned claim 1H but terminated the option with no work completed.
- 1980 Lancana Mining Corp. sampled mill tailings on 1H.
- 1982 As the Ontario government had not proceeded with converting the acquired area into a park, BHM applied for and obtained exploration rights beyond the patented leases. The new leases include 2H (south of 33B, 4H (west of 2H) and the west half of 27B (south of 4H). All areas outside of these claims were still inaccessible.
- 1984 Cumberland Resources Ltd. undertook a soil survey north of the northern end of Moss Lake. A low-level Au anomaly was delineated from this work.
- 1986 Matt Berry Mines Ltd. and BHM form JV to explore Ardeen mine area and two non-contiguous claim groups.
- 1986-87 Detailed mapping of Ardeen mine area by Lesley Chorlton of the OGS.
- 1987 Revaluation of the Ardeen mine by consultant to Matt Berry Mines. Matt Berry Mines completed aerial photography, gridding, ground magnetics and VLF EM surveys and drilled 18 holes for 4,422.6 m. This drilling mainly targeted the former Ardeen mine, and the Minoletti and Beaver zones. Holes were only partially sampled, with a best result recorded of 1.3 m of 37.7 g/t Au (Hole MB87-17) to the south of the mine. Following the 1987 stock market crash, the JV was terminated.



- 1988 Rainbow Lake Resources Inc. completed geological mapping, trenching, ground magnetic, VLF-EM and IP surveys and 7 diamond drill holes (1,513 m) within a claim block to the west of Rainbow Lake. It is apparent that most of the holes were not assayed.
- Noranda Exploration Company Ltd. completed a regional airborne EM survey (2,620 line km) using the Dighem III system.
- 1988-89 International Geoventures (IG) Ltd. acquired a property with a gossan exposed over 152 m with Quetico sedimentary rocks 1.2 km northwest of the Ardeen mine, and later acquires the Ardeen mine from BHM.
- Noranda options both properties and undertakes trenching, rock and humus sampling, detailed geological mapping and ground magnetic and IP surveys on the Quetico project and mapping and rock sampling at Ardeen. The option is terminated in 1989.
- 1990 Landore Exploration optioned both IG properties and completed 10 diamond drill holes (1,243.3 m). Five holes tested the gossanous zone on the Quetico property and the remaining 5 were drilled at Ardeen. The best results from this drilling were 1.52 m of 11.32 g/t Au (Hole LM 90-7) and 22.2 m of 1.04 g/t Au (Hole LM 90-8). Landore dropped the option as they were unable to make a cash payment to maintain their interest.
- The Ontario government who was still holding land other than the existing patented claims drops its plan for a provincial park reserve and allows claim staking. Upon this, Gold Fields Canadian Mining Company (Gold Fields) staked the ground around the Ardeen Mine. Gold Fields completed airborne magnetic and ground VLF EM surveys.
- 1990-91 Aerodat regional airborne magnetic and EM survey over the Shebandowan Greenstone Belt for the Ministry of Northern Development and Mines (MNDM).
- 1991 Akiko-Lori Gold Resources Ltd. (Akiko-Lori) optioned the Gold Fields claims. Nelson W. Baker Geological Services on behalf of Akiko-Lori completed geological mapping, sampling and mechanical stripping resulting in the discovery of 6 new Au occurrences, including the Fisher zone. The Fisher zone records an average of 20.91 g/t Au over 1.55 m from an exposed strike of 22.86 m.
- Osmani conducts regional mapping of Moss Township for the OGS.
- 1992 Baker for Akiko-Lori conducted follow-up geological mapping and sampling, soil sampling and completed 5 diamond drill holes (308.2 m), with 2 holes drilled at the Fisher zone and 3holes at McKellar. The best intercept recorded was 4.87 m of 5.14 g/t Au at Fisher (Hole ML-92-04). A new occurrence called the Post zone is outlined about 800 m southwest of the Ardeen mine recording 8.22 g/t Au over 1.67 m.
- 1993 A group of prospectors (Dave Petrunka, Costy Bumbu and Jim Martin – Bumbu Consortium) dispute Gold Fields' right to their claims. After protracted litigation, the prospectors gain title to the claims.



- 1993-94 BHM sells the Ardeen Mine to 1013968 Ontario Ltd., the company of prospector Ted Aho who completed prospecting and sampling using Ovalbay Geological Services Inc.
- 1994 The Bumbu Consortium using an Ontario Prospectors Assistance Program (OPAP) grant contracted Ovalbay Geological Services Inc. to undertake sampling, mechanical stripping and trenching.
- Prospector Eino Ranta optioned the project from the Bumbu Consortium. Ovalbay and Ranta completed sampling, geological mapping and drilled 5 holes (222.2 m). Best results from this program were 3.81 m of 21.05 g/t Au at Fisher (PRM-94-01). Further sampling at the Post zone returned an average of 40.26 g/t Au from 7 grab samples.
- 1995-96 Aho using an OPAP grant and Ovalbay as a contractor completed 7 diamond drill holes (312.3 m) at the Beaver zone with only minor Au anomalies recorded. Additional stripping, trenching and sampling was undertaken in 1996.
- 1996 Pele Mountain Resources Inc. optioned the claims held by the Bumbu consortium, as well as the Ardeen mine from Aho. The first exploration was undertaken in November on the original 40-claim group, with the first phase of diamond drilling completed in the same year.
- 1997-2003 Pele completed a number of comprehensive exploration programs on the project almost exclusively in the period of 1997 to 1998. This included ground magnetic, VLF EM and IP surveys, detailed till and rock sampling, geological mapping and mechanical stripping and trenching (7-8,000 m). Structural mapping was also undertaken by Etheridge Henley Williams (now part of SRK Consulting). A total of 153 diamond drill holes (13,486.35 m) were completed by Pele on more than 8 zones or prospects.
- In 1998, a non-JORC compliant resource was calculated for the project from five zones by Minescape Exploration Inc.
- 1999 The OGS completed a regional till survey analyzing for Au and multi-elements in the western Shebandowan Greenstone Belt (Bajc, 2000). One sample 800 m west of the Ardeen Mine returned 316 native gold grains in a 10 kg till sample, of which 76% were pristine. This anomaly has had no follow up.
- 2004 MacDonald (2004) completed the first compilation of all geological data and targeting review since the termination of exploration in the 1970s. This work resulted in the first digital drill collar file for the project.
- 2004 Goldcorp Inc. acquired an option over the Ardeen project following generative work by Pryslak (2004) who recognized characteristics consistent with an alkalic porphyry-related Au system. Goldcorp constructed the first drill hole database for the project and undertook limited resampling of historic holes. A total of 8 diamond drill holes were completed (2,951 m) at six target areas, with 3 deep holes targeting the Ardeen / Fisher



area. All holes intersected mineralization, but the results did not meet the corporate objectives and hence the option was terminated.

- 2009-2010 Coventry Resources completed two drill programs for a total of 70 holes (7,845 m), and re-logged an additional 62 historic holes (6,633 m). Drilling was largely focused on the McKellar and Fisher prospects. A till and humus sampling program covered the northern half of the current property, with a total of 442 samples collected and analyzed by fire assay and ICP-MS on a 200m x 200m grid. The sampling program identified significant, broad gold anomalies along the Border Zone. Coventry also completed a small syenite sampling program in an attempt to locate REE mineralization within the Moss Lake syenite. The Moss Lake syenite has REE values fairly typical of syenites.
- 2016-2017 Kesselrun contracted Fladgate Exploration to conduct an exploration program over the Huronian Property. The program consisted of historic DDH validation, prospecting, structural mapping, mechanized stripping, and channel sampling. The program resulted in the discovery of the Leo Zone and highlighted a number of anomalous narrow Au mineralized structures.

### **9.3 History of the Pearce Lake/Moss extension (south of the Ardeen mine)**

- 1965-66 Cominco Ltd. undertook an airborne magnetic and EM survey and completed 3 diamond drill holes (205.2 m) within the project area.
- 1977 Amoco Canada Petroleum Co. Ltd. completed 2 diamond drill holes (265.8 m) to the east of Gold Lake intersecting graphitic/pyrite schist. No sampling undertaken.
- 1984-85 Kennco Exploration (Canada) Ltd. explored two wholly owned claim blocks as well as optioned an additional block from Wawiag Resources Ltd., and completed geological mapping, trenching, rock and humus sampling, ground magnetic and EM surveys.
- 1987-88 Grand Portage Resources Ltd. optioned the Kennco ground and completed trenching and sampling and 16 diamond drill holes (1,715.3 m). The highest assay recorded was 10 m of 1.44 g/t Au (Hole GP-88-15) located on the South Waverley Shear. No follow up of this is recorded.
- 1988 Noranda Exploration Company Ltd. completed a regional airborne EM survey (2,620-line km) using the Dighem III system.
- 1989-90 Noranda optioned and the Grand Portage and Wawiag properties and completed geological mapping, a reconnaissance IP survey, trenching and humus and rock sampling. Two diamond drillholes forming part of larger program were completed.
- 2005 East West Resource Corp. and Maple Minerals Corp. acquired an option over the project as part of an exploration program on adjoining properties. The East West/Maple JV completed a 100 m line spaced VTEM survey over the project to detect massive sulphide



mineralization. A total of 13 diamond drill holes (2,046 m) were completed on EM anomalies in the Pearce Lake area and to the west of Ardeen in rocks of the Quetico Subprovince. Limited Au anomalies was reported. PEL05-2 intercepted 1.2 g/t Au over 13 m, including 5.2 g/t Au and 97 g/t Ag over 1 m.

## 10 Current Program

### 10.1 Current Program

Fladgate Geologist Kyle Pedersen and Belham Ltd. Excavator began trenching on August 18, 2020. Trench washing, mapping and sampling began on August 26<sup>th</sup> and continued until October 18<sup>th</sup>. Personnel Logs can be found below in Table 3 – Personnel Logs. A total of 700 samples were taken over 149 channels in 11 trenches. A breakdown of channels and samples per trench can be found below.

Trench	No. of channels	No. of Samples	Hectares
TR5	13	63	0.1324
TR29	13	76	0.17
TR6	8	42	0.1056
TR1	44	218	0.2785
TR40	18	77	0.3649
TR41	6	39	0.01473
TR45	3	14	0.09658
TR44	13	44	0.3143
TR42	13	51	0.2484
TR43	13	54	0.09218
TR46	5	22	0.1739

The trenching program largely focused on exposing the known occurrences along the Ardeen trend in order to better understand the structural controls on mineralization. Channels were marked out along each trench and cut using methods described below

**Table 3 – Personnel Logs**

Name	Title	Start Date	End Date	Total Days
Michael Thompson	Geologist	24-Aug-19	14-Sep-20	6
Leah Clapp	Project Manager			
Jordan Kowalchuk	Geologist	11-Sep-20	1-Oct-20	22
Kyle Pedersen	Geologist	18-Aug-20	19-Oct-20	40.5
DJ Darrah	Geotech	26-Aug-20	7-Oct-20	30



<b>Gilles Roberts</b>	Geotech	27-Aug-20	23-Sep-20	28
<b>Ghislain Gervais</b>	Geotech	6-Sep-20	15-Oct-20	20
<b>Michael Shine</b>	Geotech	15-Sep-20	15-Oct-20	28
<b>Alex Templar</b>	Geotech	3-Oct-20	18-Oct-20	15.5
<b>Belham Ltd.</b>	Excavator	18-Aug-20	6-Sep-20	

## 11 Sampling and Analytical Methods

### 11.1 Channel Sample Preparation, Analytical Methods, and QA/QC

Channels were marked on outcrops using spray paint and measuring tape, chosen to represent all lithologies, and both altered and unaltered rocks by Fladgate geologists Jordan Kowalchuk and Kyle Pedersen. Two parallel lines were cut in the outcrop roughly 1.5" apart and 3" deep, between 30 cm and 1.3 m in length, using a Stihl TS/700 concrete cut-off saw. Samples were chipped out of the channel using a chisel and 5 lb hammer, and sampled roughly every meter, with samples chosen to represent changes in lithology rather than sampling on a discrete grid. Aluminum sample tags were inserted into the channel corresponding to samples taken, and the entire sample length was sampled. The lab sample tag corresponding to the field tag was placed into the sample bag and secured with a zip tie. The outside of the sample bag was also labeled with the sample number.

Samples were transported from site by Fladgate personnel and delivered directly to the analytical laboratory. ActLabs analyzed the channel sample. Gold was analyzed by taking a 50 g pulverized sample through fire assay (FA) and atomic absorption finish (AAS) with a detection limit of 5 ppb. A complimentary Ag analysis was performed using a 0.25 g split digested with aqua regia and ICP-AES (or ICP-OES at Actlabs) finish with a detection limit of 0.2 ppm.

A QA/QC protocol was applied to this sampling program in order to ensure accuracy and reproducibility. Independent of the assay lab, gold-bearing standards and blanks were inserted every 20<sup>th</sup> sample into the sample stream using the same numbering sequence, alternating between standard and blank. The standards were inserted in a rotation of high, medium, and low concentration.

## 12 Results

A full list of results can be found in Appendix.





## 12.1 Mechanized Stripping

A summary of mechanized stripping program is presented below (**Error! Reference source not found.**). A total of 700 channel samples were collected from 11 trenches, totalling 1.99 hectares over 1 patent and 13 claims.

Results of Au analyses from the channel samples are tabulated in Appendix I – . Assay certificates for these analyses are in Appendix III – Assay Certificates. All certified reference materials (CRMs) inserted into the sample stream were within 3 standard deviations of the accepted values.

Channel samples confirm the presence of gold mineralization on the Huronian property. Mineralization was observed within high grade, narrow (<1m) quartz-pyrite-chalcopyrite-galena veins. Sample number 763770 from Trench 1, channel 18 returned a value of 3.61 Au gpt.

Sample ID	Easting	Northing	Channel	Date	Assay Cert
763501	664146.4308	5376310.697	TR5 CH1 SA1	2019-09-14-12-18-57	A19-14136
763502	664145.3518	5376311.298	TR5 CH1 SA2	2019-09-14-12-20-58	A19-14136
763503	664145.0614	5376311.452	TR5 CH1 SA3 end of channel	2019-09-14-12-22-39	A19-14136
763504	664148.5004	5376314.838	TR5 CH2 SA1	2019-09-14-12-32-48	A19-14136
763505	664147.2908	5376316.395	TR5 CH2 SA2	2019-09-14-12-34-50	A19-14136
763506	664146.8069	5376317.273	TR5 CH2 SA3	2019-09-14-12-35-44	A19-14136
763507	664144.1631	5376318.031	TR5 CH2 SA4 END OF CHANNEL	2019-09-14-12-38-21	A19-14136
763508	664147.8372	5376319.774	TR5 CH3 SA1	2019-09-14-16-23-24	A19-14136
763509	664146.954	5376319.765	TR5 CH3 SA2	2019-09-14-16-27-05	A19-14136
763510	664146.2549	5376321.342	TR5 CH3 SA3	2019-09-14-16-29-32	A19-14136
763511	664146.2431	5376322.29	TR5 CH3 SA4	2019-09-14-16-33-21	A19-14136
763512	664145.665	5376323.225	TR5 CH3 SA5 END OF CHANNEL	2019-09-14-16-34-48	A19-14136
763513	664145.284	5376327.803	TR5 CH4 SA1	2019-09-14-16-45-17	A19-14136
763514	664144.8048	5376328.604	TR5 CH4 SA2	2019-09-14-16-47-10	A19-14136
763515	664145.0024	5376329.806	TR5 CH4 SA3	2019-09-14-16-50-43	A19-14136
763516	664145.559	5376329.877	TR5 CH4 SA4	2019-09-14-16-53-47	A19-14136
763517	664144.1599	5376330.467	TR5 CH4 SA5 END CHANNEL	2019-09-14-16-55-02	A19-14136
763518	664142.0968	5376338.03	TR5 CH5 SA1	2019-09-14-17-02-36	A19-14136
763519	664142.5391	5376338.733	TR5 CH5 SA2	2019-09-14-17-04-43	A19-14136
763520	664141.4939	5376339.335	TR5 CH5 SA3	2019-09-14-17-06-38	A19-14136
763521	664141.7093	5376340.25	TR5 CH5 SA4	2019-09-14-17-09-01	A19-14136
763522	664140.9466	5376340.35	TR5 CH5 SA5 END CHANNEL	2019-09-14-17-11-33	A19-14136
763523	664124.1474	5376369.053	TR5 CH6 SA1	2019-09-15-14-34-23	A19-14136
763524	664123.7402	5376369.53	TR5 CH6 SA2	2019-09-15-14-36-57	A19-14136
763525	664122.8922	5376369.44	TR5 CH6 SA3	2019-09-15-14-41-18	A19-14136
763526	664121.97	5376370.625	TR5 CH6 SA4	2019-09-15-14-43-21	A19-14136
763527	664121.7363	5376371.348	TR5 CH6 SA5	2019-09-15-14-45-48	A19-14136
763528	664121.3874	5376371.764	TR5 CH6 SA6	2019-09-15-14-46-33	A19-14136
763529	664120.9846	5376372.633	TR5 CH6 SA7	2019-09-15-14-48-21	A19-14136
763530	664120.7983	5376373.662	TR5 CH6 SA8	2019-09-15-14-49-32	A19-14136
763531	664120.3899	5376373.961	TR5 CH6 SA9	2019-09-15-14-50-22	A19-14136
763532	664121.1031	5376373.982	TR5 CH6 SA10	2019-09-15-14-52-21	A19-14136
763533	664119.2431	5376376.189	TR5 CH6 SA11 END CHANNEL	2019-09-15-14-55-14	A19-14136
763534	664120.3092	5376377.005	TR5 CH7 SA1	2019-09-15-14-59-55	A19-14136
763535	664119.5522	5376377.504	TR5 CH7 SA2	2019-09-15-15-01-13	A19-14136
763536	664119.9767	5376378.207	TR5 CH7 SA3 END CHANNEL	2019-09-15-15-03-03	A19-14136
763537	664123.2942	5376391.421	TR5 CH8 SA1	2019-09-15-15-08-22	A19-14136
763538	664122.778	5376392.843	TR5 CH8 SA2	2019-09-15-15-10-00	A19-14136
763539	664122.3658	5376393.093	TR5 CH8 SA3	2019-09-15-15-11-02	A19-14136
763540	664121.9018	5376393.68	TR5 CH8 SA4	2019-09-15-15-12-09	A19-14136
763541	664122.3855	5376395.184	TR5 CH8 SA5	2019-09-15-15-13-38	A19-14136
763542	664121.5101	5376394.781	TR5 CH8 SA6	2019-09-15-15-14-54	A19-14136
763543	664122.1607	5376396.409	TR5 CH8 SA7 END CHANNEL	2019-09-15-15-16-08	A19-14136
763544	664127.8252	5376400.126	TR5 CH9 SA1	2019-09-15-15-25-05	A19-14136
763545	664126.746	5376401.507	TR5 CH9 SA2	2019-09-15-15-28-13	A19-14136
763546	664126.6853	5376401.084	TR5 CH9 SA3 END CHANNEL	2019-09-15-15-32-28	A19-14136
763547	664130.941	5376485.187	TR5 CH10 SA1	2019-09-15-15-50-26	A19-14136
763548	664130.8699	5376485.666	TR5 CH10 SA2	2019-09-15-15-51-35	A19-14136
763549	664130.8272	5376485.436	TR5 CH10 SA3	2019-09-15-15-57-02	A19-14136
763550	664130.786	5376485.898	TR5 CH10 SA4	2019-09-15-15-58-37	A19-14136
763551	664130.5653	5376487.671	TR5 CH10 SA5	2019-09-15-16-00-05	A19-14136
763552	664131.1472	5376489.569	TR5 CH10 SA6	2019-09-15-16-06-21	A19-14136
763553	664130.4637	5376491.321	TR5 CH10 SA7 END CHANNEL	2019-09-15-16-07-34	A19-14136
763554	664127.8975	5376497.75	TR5 CH11 SA1	2019-09-15-16-12-43	A19-14136
763555	664127.4186	5376498.632	TR5 CH11 SA2 END CHANNEL	2019-09-15-16-14-10	A19-14136
763556	664128.3029	5376499.985	TR5 CH12 SA1	2019-09-15-17-23-12	A19-14136
763557	664128.377	5376500.886	TR5 CH12 SA2	2019-09-15-17-25-50	A19-14136

763558	664128.0429	5376502.22	TR5 CH12 SA3	2019-09-15-17-26-51	A19-14136
763559	664128.2831	5376502.434	TR5 CH12 SA4	2019-09-15-17-28-46	A19-14136
763560	664127.9079	5376503.827	TR5 CH12 SA5 END CHANNEL	2019-09-15-17-29-55	A19-14136
763561	664127.6837	5376508.601	TR5 CH13 SA1	2019-09-15-17-34-03	A19-14136
763562	664128.0924	5376508.936	TR5 CH13 SA2	2019-09-15-17-36-49	A19-14136
763563	664128.1468	5376509.79	TR5 CH13 SA3 END CHANNEL	2019-09-15-17-38-15	A19-14136
763564	665127.4559	5375991.693	TR29 CH1 SA1	2019-09-21-10-03-16	A19-14139
763565	665127.076	5375992.6	TR29 CH1 SA2	2019-09-21-10-04-03	A19-14139
763566	665126.4671	5375993.06	TR29 CH1 SA3	2019-09-21-10-04-43	A19-14139
763567	665126.5621	5375992.347	TR29 CH1 SA4	2019-09-21-10-06-10	A19-14139
763568	665126.1844	5375993.256	TR29 CH1 SA5	2019-09-21-10-07-17	A19-14139
763569	665126.1379	5375993.66	TR29 CH1 SA6 end channel	2019-09-21-10-08-02	A19-14139
763570	665121.9086	5376003.493	TR29 CH2 SA1	2019-09-21-10-16-21	A19-14139
763571	665122.2033	5376004.827	TR29 CH2 SA2	2019-09-21-10-18-28	A19-14139
763572	665120.964	5376007.2	TR29 CH2 SA3	2019-09-21-10-22-02	A19-14139
763573	665121.0656	5376007.025	TR29 CH2 SA4	2019-09-21-10-22-56	A19-14139
763574	665121.556	5376007.207	TR29 CH2 SA5	2019-09-21-10-23-26	A19-14139
763575	665120.3176	5376009.649	TR29 CH2 SA6	2019-09-21-10-24-06	A19-14139
763576	665120.6214	5376010.14	TR29 CH2 SA7	2019-09-21-10-24-52	A19-14139
763577	665120.5804	5376010.82	TR29 CH2 SA8	2019-09-21-10-25-28	A19-14139
763578	665120.4696	5376010.941	TR29 CH2 SA9	2019-09-21-10-26-04	A19-14139
763579	665120.2163	5376011.2	TR29 CH2 SA10	2019-09-21-10-26-34	A19-14139
763580	665119.9972	5376012.002	TR29 CH2 SA11	2019-09-21-10-27-07	A19-14139
763581	665119.5481	5376012.432	TR29 CH2 SA12	2019-09-21-10-27-32	A19-14139
763582	665119.4214	5376012.625	TR29 CH2 SA13	2019-09-21-10-28-02	A19-14139
763583	665119.0334	5376013.366	TR29 CH2 SA14	2019-09-21-10-28-40	A19-14139
763584	665118.7735	5376014.043	TR29 CH2 SA15 END CHANNEL	2019-09-21-10-29-33	A19-14139
763585	665117.3151	5376013.922	TR29 CH3 SA1	2019-09-21-10-36-44	A19-14139
763586	665116.0209	5376015.706	TR29 CH3 SA2	2019-09-21-10-37-22	A19-14139
763587	665115.2571	5376016.755	TR29 CH3 SA3	2019-09-21-10-37-54	A19-14139
763588	665115.0526	5376017.576	TR9 CH3 SA4	2019-09-21-10-38-28	A19-14139
763589	665114.8425	5376018.257	TR29 CH3 SA5 END CHANNEL	2019-09-21-10-38-54	A19-14139
763590	665114.0862	5376031.28	TR29 CH4 SA1 UNDER WATER NOW.	2019-09-21-10-55-39	A19-14139
763591	665113.3523	5376031.306	TR29 CH4 SA2 UNDER WATER NOW	2019-09-21-10-56-52	A19-14139
763592	665113.4475	5376032.222	TR29 CH4 SA3 UNDER WATER NOW	2019-09-21-10-57-26	A19-14139
763593	665113.0941	5376032.704	TR29 CH4 SA4 UNDER WATER NOW	2019-09-21-10-59-16	A19-14139
763594	665112.6972	5376033.19	TR29 CH4 SA5	2019-09-21-10-59-51	A19-14139
763595	665113.4821	5376032.627	TR29 CH4 SA6	2019-09-21-11-00-27	A19-14139
763596	665113.4393	5376033.106	TR29 CH4 SA7	2019-09-21-11-01-32	A19-14139
763597	665113.9567	5376033.335	TR29 CH4 SA8	2019-09-21-11-02-33	A19-14139
763598	665112.8662	5376034.102	TR29 CH4 SA9	2019-09-21-11-03-25	A19-14139
763599	665112.1142	5376035.076	TR29 CH4 SA10	2019-09-21-11-05-56	A19-14139
763600	665112.4846	5376035.851	TR29 CH4 SA11 END CHANNEL	2019-09-21-11-06-37	A19-14139
763601	665111.4148	5376035.51	TR29 CH5 SA1	2019-09-21-11-15-13	A19-14139
763602	665111.2573	5376036.284	Tr29 CH5 SA2	2019-09-21-11-15-47	A19-14139
763603	665111.3538	5376036.669	TR29 CH5 SA3 end channel	2019-09-21-11-16-11	A19-14139
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763605	665104.0587	5376045.187	Tr29 ch6 sa2	2019-09-21-11-25-12	A19-14139
763606	665103.5808	5376046.348	TR29 CH6 SA3	2019-09-21-11-25-46	A19-14139
763607	665103.9526	5376046.671	TR29 CH6 SA4	2019-09-21-11-26-43	A19-14139
763608	665103.2235	5376048.756	TR29 CH6 SA5	2019-09-21-11-27-53	A19-14139
763609	665103.5576	5376048.353	TR29 CH6 SA6 END CHANNEL	2019-09-21-11-28-23	A19-14139
763610	665091.9201	5376068.484	TR29 CH7 SA1	2019-09-21-11-36-44	A19-14139
763611	665091.4184	5376069.53	TR29 CH7 SA2	2019-09-21-11-38-02	A19-14139
763612	665091.706	5376070.892	TR29 CH7 SA3 END CHANNEL	2019-09-21-11-38-41	A19-14139
763613	665088.4115	5376073.707	TR29 CH8 SA1	2019-09-21-11-45-33	A19-14139
763614	665089.2872	5376074.262	TR29 CH8 SA2	2019-09-21-11-46-53	A19-14139
763615	665088.0802	5376075.982	Tr29 CH8 SA3	2019-09-21-11-47-56	A19-14139

763616	665089.7212	5376075.979	TR29 CH8 SA4	2019-09-21-11-48-57	A19-14139
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763618	665089.5535	5376076.051	TR29 CH8 SA6	2019-09-21-11-52-08	A19-14139
763619	665088.1437	5376076.597	TR29 CH8 SA7	2019-09-21-11-53-20	A19-14139
763620	665088.3167	5376078.33	TR29 CH8 SA8	2019-09-21-11-53-48	A19-14139
763621	665088.935	5376077.458	TR29 CH8 SA9	2019-09-21-11-54-27	A19-14139
763622	665087.747	5376078.745	TR29 CH8 SA10	2019-09-21-11-54-58	A19-14139
763623	665087.8443	5376080.151	TR29 CH8 SA11	2019-09-21-11-55-32	A19-14139
763624	665053.757	5376154.417	TR29 CH9 SA1	2019-09-21-12-10-28	A19-14139
763625	665052.3057	5376154.673	TR29 CH9 SA2 END CHANNEL	2019-09-21-12-11-07	A19-14139
763626	665052.0169	5376153.223	TR29 CH10 SA1	2019-09-21-12-14-40	A19-14139
763627	665051.4591	5376153.795	TR29 CH10 SA2	2019-09-21-12-15-36	A19-14139
763628	665050.0359	5376154.88	TR29 CH10 SA3	2019-09-21-12-16-53	A19-14139
763629	665049.1993	5376155.063	TR29 CH10 SA4	2019-09-21-12-17-53	A19-14139
763630	665047.4456	5376156.641	TR29 CH10 SA5 END CHANNEL	2019-09-21-12-19-29	A19-14139
763631	665029.025	5376179.941	TR29 CH11 SA1	2019-09-21-12-28-27	A19-14139
763632	665028.7858	5376181.343	TR29 CH11 SA2 END CHANNEL	2019-09-21-12-28-50	A19-14139
763633	664992.746	5376235.678	TR29 CH12 SA1	2019-09-21-12-35-33	A19-14139
763634	664992.288	5376235.56	TR29 CH12 SA2	2019-09-21-12-37-05	A19-14139
763635	664991.4658	5376236.271	TR29 CH12 SA3	2019-09-21-12-37-47	A19-14139
763636	664990.7947	5376236.514	TR29 CH12 SA4	2019-09-21-12-39-08	A19-14139
763637	664991.3217	5376238.153	TR29 CH12 SA5	2019-09-21-12-39-56	A19-14139
763638	664990.8467	5376238.995	Tr29 Ch12 Sa6 end channel	2019-09-21-12-40-35	A19-14139
763639	664992.1182	5376237.58	TR29 CH13 SA1 END CHANNEL	2019-09-21-12-42-46	A19-14139
763640	664188.929	5376658.895	TR6 CH1 SA1	2019-09-21-14-54-39	A19-14138
763641	664188.8151	5376659.339	TR6 CH1 SA2	2019-09-21-14-55-21	A19-14138
763642	664189.8544	5376659.731	TR6 CH1 SA3 END CHANNEL	2019-09-21-14-56-58	A19-14138
763643	664189.2209	5376662.118	TR6 CH2 SA1	2019-09-21-15-01-54	A19-14138
763644	664189.44	5376662.663	TR6 CH2 SA2	2019-09-21-15-04-18	A19-14138
763645	664189.0738	5376663.147	TR6 CH2 SA3	2019-09-21-15-05-12	A19-14138
763646	664188.7632	5376665.351	TR6 CH2 SA4 END CHANNEL	2019-09-21-15-06-08	A19-14138
763647	664168.9721	5376706.974	TR6 CH3 SA1	2019-09-21-15-21-28	A19-14138
763648	664168.303	5376707.731	TR6 CH3 SA2	2019-09-21-15-23-00	A19-14138
763649	664167.6017	5376708.012	TR6 CH3 SA3	2019-09-21-15-25-20	A19-14138
763650	664167.6222	5376708.138	TR6 CH3 SA4	2019-09-21-15-27-42	A19-14138
763651	664167.4682	5376708.207	TR6 CH3 SA5	2019-09-21-15-28-55	A19-14138
763652	664166.7383	5376709.634	TR6 CH3 SA6	2019-09-21-15-29-55	A19-14138
763653	664166.7253	5376710.403	TR6 CH3 SA7 END CHANNEL	2019-09-21-15-31-01	A19-14138
763654	664164.1387	5376724.212	TR6 CH4 SA1	2019-09-21-15-41-14	A19-14138
763655	664163.9185	5376724.676	TR6 CH4 SA2	2019-09-21-15-42-40	A19-14138
763656	664163.5806	5376726.075	TR6 CH4 SA3 END CHANNEL	2019-09-21-15-43-07	A19-14138
763657	664163.645	5376730.955	TR6 CH5 SA1	2019-09-22-10-34-04	A19-14138
763658	664163.125	5376730.965	TR6 CH5 SA2	2019-09-22-10-34-59	A19-14138
763659	664163.9397	5376731.038	TR6 CH5 SA3	2019-09-22-10-36-03	A19-14138
763660	664163.9764	5376732.588	TR6 CH5 SA4	2019-09-22-10-37-09	A19-14138
763661	664163.4453	5376732.426	TR6 CH5 SA5	2019-09-22-10-38-07	A19-14138
763662	664163.2351	5376734.411	TR6 CH5 SA6 END CHANNEL	2019-09-22-10-40-09	A19-14138
763663	664160.4113	5376738.151	TR6 CH6 SA1	2019-09-22-10-45-10	A19-14138
763664	664160.2898	5376738.912	TR6 CH6 SA2	2019-09-22-10-46-23	A19-14138
763665	664160.3254	5376739.248	TR6 CH6 SA3	2019-09-22-10-48-29	A19-14138
763666	664160.7426	5376739.485	TR6 CH6 SA4	2019-09-22-10-49-37	A19-14138
763667	664160.0328	5376739.796	TR6 CH6 SA5	2019-09-22-10-50-50	A19-14138
763668	664160.0577	5376740.316	TR6 CH6 SA6	2019-09-22-10-51-32	A19-14138
763669	664159.9739	5376741.793	TR6 CH6 SA7	2019-09-22-10-52-38	A19-14138
763670	664158.5041	5376741.887	TR6 CH6 SA8 END CHANNEL	2019-09-22-10-54-05	A19-14138
763671	664155.1586	5376750.4	TR6 CH7 SA1	2019-09-22-11-02-58	A19-14138
763672	664154.6561	5376751.659	TR6 CH7 SA2	2019-09-22-11-05-04	A19-14138
763673	664154.3263	5376751.267	TR6 CH7 SA3 END CHANNEL	2019-09-22-11-06-11	A19-14138

763674	664153.3175	5376753.191	TR6 CH8 SA1	2019-09-22-11-15-01	A19-14138
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763677	664150.124	5376756.807	TR6 CH8 SA4	2019-09-22-11-17-56	A19-14138
763678	664150.9168	5376757.492	TR6 CH8 SA5	2019-09-22-11-20-02	A19-14138
763679	664150.2447	5376758.275	TR6 CH8 SA6	2019-09-22-11-21-15	A19-14138
763680	664149.7714	5376758.396	TR6 CH8 SA7	2019-09-22-11-22-09	A19-14138
763681	664149.3769	5376758.801	TR6 CH8 SA8	2019-09-22-11-23-18	A19-14138
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763683	665940.1915	5376346.437	TR1 CH1 SA2	2019-09-28-10-48-36	A19-14260
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763686	665939.7329	5376348.103	TR1 CH1 SA5	2019-09-28-10-52-40	A19-14260
763687	665939.8512	5376349.117	Tr1 ch1 sa6 end CHANNEL	2019-09-28-10-53-52	A19-14260
763688	665946.9405	5376356.874	TR1 CH2 SA1	2019-09-28-11-02-18	A19-14260
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763691	665948.9303	5376358.129	TR1 CH3 SA1	2019-09-28-11-18-51	A19-14260
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763703	665960.36	5376392.433	TR1 CH6 SA4 END CHANNEL	2019-09-28-11-43-03	A19-14260
763704	665960.9485	5376395.804	TR1 CH7 SA1	2019-09-28-11-48-13	A19-14260
763705	665960.4419	5376396.838	TR1 CH7 SA2	2019-09-28-11-48-55	A19-14260
763706	665960.1828	5376396.776	TR1 CH7 SA3 END CHANNEL	2019-09-28-11-49-12	A19-14260
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763708	665957.1406	5376403.332	TR1 CH8 SA2	2019-09-28-11-53-34	A19-14260
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763879	665863.2374	5376567.645	TR1 CH37 SA4	2019-09-29-12-08-36	A19-14260
763880	665863.0743	5376568.134	TR1 CH37 SA5	2019-09-29-12-09-09	A19-14260
763881	665863.0732	5376570.445	TR1 CH37 SA6 End CHANNEL	2019-09-29-12-10-10	A19-14260
763882	665867.5475	5376586.225	TR1 CH38 SA1	2019-09-29-12-14-58	A19-14260
763883	665867.5746	5376586.992	TR1 CH38 SA2 END CHANNEL	2019-09-29-12-15-25	A19-14260
763884	665867.3846	5376587.554	TR1 CH39 SA1	2019-09-29-12-20-07	A19-14260
763885	665867.5354	5376588.325	TR1 CH39 SA2 END CHANNEL	2019-09-29-12-20-27	A19-14260
763886	665859.0072	5376627.988	TR1 CH40 SA1	2019-09-29-12-30-01	A19-14260
763887	665859.1392	5376628.69	TR1 CH40 SA2	2019-09-29-12-30-33	A19-14260
763888	665859.1808	5376629.803	TR1 CH40 SA3 END CHANNEL	2019-09-29-12-30-55	A19-14260
763889	665859.8732	5376642.496	TR1 CH41 SA1	2019-09-29-12-47-53	A19-14260
763890	665859.7153	5376642.813	TR1 CH41 SA2 end CHANNEL	2019-09-29-12-48-18	A19-14260
763891	665856.9334	5376643.892	TR1 CH42 SA1	2019-09-29-12-53-24	A19-14260
763892	665856.6829	5376643.984	TR1 CH42 SA2	2019-09-29-12-53-44	A19-14260
763893	665855.8974	5376644.578	TR1 CH42 SA3	2019-09-29-12-54-34	A19-14260
763894	665855.556	5376645.235	TR1 CH42 SA4 end CHANNEL	2019-09-29-12-54-55	A19-14260
763895	665840.8389	5376659.381	TR1 CH43 SA1	2019-09-29-13-00-00	A19-14260
763896	665840.2061	5376660.026	TR1 CH43 SA2 END CHANNEL	2019-09-29-13-00-10	A19-14260
763897	665745.7438	5376768.538	TR1 CH44 SA1	2019-09-29-13-08-00	A19-14260
763898	665745.7621	5376769.6	TR1 CH44 SA2	2019-09-29-13-08-17	A19-14260
763899	665745.7579	5376770.588	TR1 CH44 SA3 END CHANNEL	2019-09-29-13-08-39	A19-14260
763900	664400.7349	5376826.488	TR40 CH1 SA1	2019-10-04-10-19-21	A19-14261
763901	664400.3939	5376827.222	TR40 CH1 SA2	2019-10-04-10-20-37	A19-14261
763902	664400.1727	5376827.397	TR40 CH1 SA3	2019-10-04-10-22-24	A19-14261
763903	664400.4319	5376827.358	TR40 CH1 SA4	2019-10-04-10-23-42	A19-14261
763904	664398.943	5376829.744	TR40 CH1 SA5	2019-10-04-10-25-57	A19-14261
763905	664398.6045	5376829.9	TR40 CH1 SA6 end of channel	2019-10-04-10-27-34	A19-14261



763906	664396.9096	5376832.075	TR40 CH2 SA1	2019-10-04-10-36-48	A19-14261
763907	664397.505	5376833.226	TR40 CH2 SA2	2019-10-04-10-37-58	A19-14261
763908	664397.9292	5376833.024	TR40 CH2 SA3	2019-10-04-10-39-22	A19-14261
763909	664396.3875	5376833.74	TR40 CH2 SA4	2019-10-04-10-41-47	A19-14261
763910	664395.7633	5376835.165	TR40 CH2 SA5	2019-10-04-10-43-08	A19-14261
763911	664395.725	5376835.246	TR40 CH2 SA6	2019-10-04-10-44-25	A19-14261
763912	664398.2256	5376837.779	TR40 CH3 SA1	2019-10-04-10-51-54	A19-14261
763913	664397.4755	5376837.726	TR40 CH3 SA2	2019-10-04-10-53-26	A19-14261
763914	664397.0867	5376837.756	TR40 CH3 SA3 end of channel	2019-10-04-10-54-59	A19-14261
763915	664383.368	5376875.598	TR40 CH4 SA1	2019-10-04-11-06-19	A19-14261
763916	664383.0917	5376876.703	TR40 CH4 SA2	2019-10-04-11-07-48	A19-14261
763917	664382.6901	5376878.069	TR40 CH4 SA3 end of channel	2019-10-04-11-09-41	A19-14261
763918	664374.8678	5376886.046	TR40 CH5 SA1	2019-10-04-11-17-58	A19-14261
763919	664373.5564	5376886.373	TR40 CH5 SA2 END OF CHANEL	2019-10-04-11-21-39	A19-14261
763920	664365.0154	5376901.297	TR40 CH6 SA1 DIP 80	2019-10-04-11-28-34	A19-14261
763921	664364.7054	5376902.557	TR40 CH6 SA2 DIP60	2019-10-04-11-29-59	A19-14261
763922	664365.0329	5376902.916	TR40 CH6 SA3	2019-10-04-11-31-16	A19-14261
763923	664364.7685	5376902.957	TR40 CH6 SA4	2019-10-04-11-34-40	A19-14261
763924	664364.5523	5376902.728	TR30 CH6 SA5	2019-10-04-11-36-24	A19-14261
763925	664364.4774	5376904.68	TR40 CH6 SA6	2019-10-04-11-37-27	A19-14261
763926	664363.9186	5376906.323	TR40 CH6 SA7	2019-10-04-11-38-30	A19-14261
763927	664364.1997	5376905.392	TR40 CH6 SA8	2019-10-04-11-40-00	A19-14261
763928	664363.1809	5376906.823	TR40 CH6 SA9 DIP30	2019-10-04-11-41-54	A19-14261
763929	664363.0461	5376908.257	TR40 CH6 SA10 DIP60	2019-10-04-11-44-04	A19-14261
763930	664362.5555	5376907.957	TR40 CH6 SA11 DIP60	2019-10-04-11-45-14	A19-14261
763931	664368.1985	5376947.135	TR40 CH7 SA1	2019-10-04-11-58-15	A19-14261
763932	664367.9493	5376948.19	TR40 CH7 SA2 END OF CHANEL	2019-10-04-11-59-41	A19-14261
763933	664396.5297	5376994.772	TR40 CH8 SA1	2019-10-04-12-07-39	A19-14261
763934	664396.2442	5376994.872	TR40 CH8 SA2	2019-10-04-12-09-37	A19-14261
763935	664396.0495	5376996.055	TR40 CH8 SA3	2019-10-04-12-10-35	A19-14261
763936	664395.767	5376997.367	TR40 CH8 SA4 END OF CHANNEL	2019-10-04-12-11-30	A19-14261
763937	664478.8604	5377119.072	TR40 CH9 SA1	2019-10-04-12-19-46	A19-14261
763938	664478.5666	5377118.644	TR40 CH9 SA2	2019-10-04-12-20-49	A19-14261
763939	664478.6516	5377119.63	TR40 CH9 SA3 END OF CHANNEL	2019-10-04-12-21-32	A19-14261
763940	664460.9214	5377200.937	TR40 CH10 SA1	2019-10-04-12-28-49	A19-14261
763941	664460.7123	5377202.734	TR40 CH10 SA2	2019-10-04-12-29-46	A19-14261
763942	664460.1109	5377203.406	TR40 CH10 SA3 END OF CHANNEL	2019-10-04-12-30-12	A19-14261
763943	664396.7539	5377223.154	TR40 CH11 SA1 POORLY CUT DIP 40	2019-10-04-12-35-35	A19-14261
763944	664394.4856	5377223.311	TR40 CH11 SA2 DIP40	2019-10-04-12-37-26	A19-14261
763945	664394.2198	5377225.096	TR40 CH11 SA3 END OF CHANNEL	2019-10-04-12-38-27	A19-14261
763946	664392.2993	5377228.639	TR40 CH12 SA1	2019-10-04-12-45-37	A19-14261
763947	664392.2432	5377229.196	TR40 CH12 SA2	2019-10-04-12-46-39	A19-14261
763948	664392.9118	5377229.805	TR40 CH12 SA3	2019-10-04-12-47-29	A19-14261
763949	664393.4979	5377231.038	TR40 CH12 SA4	2019-10-04-12-48-20	A19-14261
763950	664394.0156	5377231.443	TR40 CH12 SA5 DIP50	2019-10-04-12-50-14	A19-14261
763951	664393.4566	5377231.917	TR40 CH12 SA6 END OF CHANNEL	2019-10-04-12-51-24	A19-14261
763952	664389.3018	5377249.709	TR40 CH13 SA1	2019-10-04-15-13-25	A19-14261
763953	664389.5269	5377250.145	TR40 CH13 SA2	2019-10-04-15-14-03	A19-14261
763954	664389.0886	5377251.086	TR40 CH13 SA3 END OF CHANNEL	2019-10-04-15-14-27	A19-14261
763955	664398.5413	5377278.67	TR40 CH14 SA1	2019-10-04-15-23-41	A19-14261
763956	664397.6582	5377280.12	TR40 CH14 SA2	2019-10-04-15-24-24	A19-14261
763957	664396.3771	5377280.91	TR40 CH14 SA3 END OF CHANNEL	2019-10-04-15-25-12	A19-14261
763958	664407.3018	5377292.628	TR40 CH15 SA1	2019-10-04-15-34-05	A19-14261
763959	664407.7703	5377292.327	TR40 CH15 SA2	2019-10-04-15-35-22	A19-14261
763960	664407.4863	5377294.002	TR40 CH15 SA3	2019-10-04-15-36-26	A19-14261
763961	664407.9924	5377294.895	TR40 CH15 SA4	2019-10-04-15-37-04	A19-14261
763962	664408.7142	5377294.776	TR40 CH15 SA5	2019-10-04-15-37-35	A19-14261
763963	664410.2718	5377296.296	TR40 CH15 SA6	2019-10-04-15-38-53	A19-14261

763964	664410.7779	5377297.13	TR40 CH15 SA7	2019-10-04-15-39-34	A19-14261
763965	664411.1638	5377296.62	TR40 CH15 SA8	2019-10-04-15-40-11	A19-14261
763966	664411.8602	5377298.247	TR40 CH15 SA9 END OG CHANNEL	2019-10-04-15-40-49	A19-14261
763967	664415.2194	5377298.29	TR40 CH16 SA1	2019-10-04-15-46-49	A19-14261
763968	664414.738	5377299.943	TR40 CH16 SA2	2019-10-04-15-47-52	A19-14261
763969	664412.906	5377300.782	TR40 CH16 SA3 END OF CHANNEL	2019-10-04-15-49-52	A19-14261
763970	664431.8169	5377324.244	TR40 CH17 SA1	2019-10-04-15-53-32	A19-14261
763971	664430.2369	5377324.826	TR40 CH17 SA2	2019-10-04-15-54-42	A19-14261
763972	664430.8286	5377325.485	TR40 CH17 SA3 END OF CHANNEL	2019-10-04-15-56-18	A19-14261
763973	664441.6679	5377352.624	TR40 CH18 SA1 DIP 70	2019-10-04-16-00-19	A19-14261
763974	664441.6592	5377354.657	TR40 CH18 SA2	2019-10-04-16-01-54	A19-14261
763975	664441.6567	5377355.035	TR40 CH18 SA3	2019-10-04-16-02-38	A19-14261
763976	664441.949	5377355.591	TR40 CH18 SA4 END OF CHANNEL	2019-10-04-16-03-14	A19-14261
763977	663919.6546	5376928.131	TR41 CH1 SA1 DIP 60	2019-10-04-13-38-58	A19-14251
763978	663918.9971	5376928.591	TR41 CH1 SA2	2019-10-04-13-39-44	A19-14251
763979	663918.7161	5376929.078	TR41 CH1 SA3	2019-10-04-13-40-24	A19-14251
763980	663918.6099	5376929.102	TR41 CH1 SA4	2019-10-04-13-41-21	A19-14251
763981	663917.5571	5376929.124	TR41 CH1 SA5	2019-10-04-13-42-05	A19-14251
763982	663916.6991	5376929.669	TR42 CH1 SA6	2019-10-04-13-42-52	A19-14251
763983	663916.0462	5376929.667	TR41 CH1 SA7	2019-10-04-13-44-06	A19-14251
763984	663915.0019	5376930.127	TR41 CH1 SA8	2019-10-04-13-45-17	A19-14251
763986	663913.4452	5376931.765	TR41 CH2 SA1	2019-10-04-13-48-52	A19-14251
763987	663913.0726	5376931.68	TR41 CH2 SA2	2019-10-04-13-49-46	A19-14251
763988	663913.0504	5376932.744	TR41 CH2 SA3	2019-10-04-13-50-52	A19-14251
763989	663912.6187	5376932.748	TR41 CH2 SA4	2019-10-04-13-51-38	A19-14251
763990	663912.1486	5376931.909	TR41 CH2 SA5 END OF CHANNEL	2019-10-04-13-52-47	A19-14251
763991	663909.9658	5376932.375	TR41 CH3 SA1	2019-10-04-13-56-12	A19-14251
763992	663909.3573	5376933.381	TR41 CH3 SA2	2019-10-04-13-57-39	A19-14251
763993	663908.8723	5376933.572	TR41 CH3 SA3	2019-10-04-13-58-28	A19-14251
763994	663907.9083	5376933.796	TR41 CH3 SA4	2019-10-04-14-11-57	A19-14251
763995	663906.9265	5376933.933	TR41 CH3 SA5	2019-10-04-14-12-55	A19-14251
763996	663906.6873	5376934.002	TR41 CH3 SA6	2019-10-04-14-13-24	A19-14251
763997	663906.698	5376934.774	TR41 CH3 SA17 END OF CHANNEL	2019-10-04-14-14-05	A19-14251
763998	663901.1733	5376936.856	TR41 CH4 SA1	2019-10-04-14-18-56	A19-14251
763999	663900.4967	5376937.84	TR41 CH4 SA2	2019-10-04-14-19-40	A19-14251
764000	663899.9837	5376939.613	TR41 CH4 SA3	2019-10-04-14-20-30	A19-14251
764983	663914.5254	5376930.78	TR41 CH1 SA9 END OF CHANNEL	2019-10-04-13-46-13	A19-14251
959001	663898.9678	5376938.286	TR41 CH4 SA4	2019-10-04-14-22-02	A19-14251
959002	663898.6716	5376938.336	TR41 CH4 SA5	2019-10-04-14-22-36	A19-14251
959003	663897.853	5376939.289	TR41 CH4 SA6 END OF CHANNEL	2019-10-04-14-23-21	A19-14251
959004	663895.9616	5376938.524	TR41 CH5 SA1	2019-10-04-14-31-24	A19-14251
959005	663896.0791	5376938.84	TR41 CH5 SA2 END OF CHANNEL	2019-10-04-14-36-03	A19-14251
959006	663892.5497	5376939.809	TR41 CH6 SA1	2019-10-04-14-42-19	A19-14251
959007	663892.2067	5376940.957	TR41 CH6 SA2	2019-10-04-14-43-16	A19-14251
959008	663891.9337	5376939.511	TR41 CH6 SA3	2019-10-04-14-44-17	A19-14251
959009	663890.6881	5376939.702	TR41 CH6 SA4	2019-10-04-14-44-56	A19-14251
959010	663889.2191	5376940.799	TR41 CH6 SA5	2019-10-04-14-45-44	A19-14251
959011	663888.734	5376940.317	TR41 CH6 SA6	2019-10-04-14-46-23	A19-14251
959012	663887.3409	5376939.769	TR41 CH6 SA7	2019-10-04-14-48-08	A19-14251
959013	663887.2217	5376942.009	TR41 CH6 SA8	2019-10-04-14-49-40	A19-14251
959014	663886.3079	5376940.058	TR41 CH6 SA9	2019-10-04-14-53-05	A19-14251
959015	663885.5288	5376940.148	TR41 CH6 SA10 END OF CHANNEL	2019-10-04-14-55-05	A19-14251
959016	665446.9123	5379571.685	TR45 CH1 SA1	2019-10-13-14-23-02	A19-14253
959017	665448.2368	5379570.615	TR45 CH1 SA2	2019-10-13-14-27-18	A19-14253
959018	665447.9137	5379570.919	TR45 CH1 SA3	2019-10-13-14-28-07	A19-14253
959019	665447.4532	5379572.608	TR45 CH1 SA4 end of channel.	2019-10-13-14-32-11	A19-14253
959020	665438.417	5379576.342	TR45 CH2 SA1	2019-10-13-14-50-23	A19-14253
959021	665437.551	5379575.739	TR45 CH2 SA2	2019-10-13-14-52-09	A19-14253

959022	665437.1085	5379576.454	TR45 CH2 SA3	2019-10-13-14-53-24	A19-14253
959023	665424.8285	5379593.569	TR45 CH3 SA1	2019-10-13-15-00-45	A19-14253
959024	665425.0239	5379594.916	TR45 CH3 SA2	2019-10-13-15-01-45	A19-14253
959025	665424.6189	5379595.733	TR45 CH3 SA2	2019-10-13-15-03-52	A19-14253
959026	665424.6501	5379596.519	TR45 CH3 SA3	2019-10-13-15-05-34	A19-14253
959027	665424.6527	5379596.649	TR45 CH3 SA4	2019-10-13-15-07-05	A19-14253
959028	665424.7194	5379597.872	TR45 CH5 SA5	2019-10-13-15-08-41	A19-14253
959029	665424.4614	5379598.029	TR45 CH3 SA6	2019-10-13-15-10-07	A19-14253
959030	665107.3634	5377925.472	TR44 CH1 SA1	2019-10-13-16-26-25	A19-14254
959031	665107.3634	5377925.472	TR44 CH1 SA2	2019-10-13-16-31-34	A19-14254
959032	665107.3634	5377925.472	TR44 CH1 SA3 dip 25	2019-10-13-16-33-16	A19-14254
959033	665090.6783	5377775.637	TR44 CH1 SA4 end of channel	2019-10-13-16-35-23	A19-14254
959034	665091.9438	5377778.219	TR44 CH2 SA1	2019-10-13-17-00-42	A19-14254
959035	665090.7713	5377776.666	TR44 CH2 SA2	2019-10-13-17-01-51	A19-14254
959036	665091.3825	5377780.76	TR44 CH2 SA3	2019-10-13-17-02-58	A19-14254
959037	664992.7154	5377955.209	TR44 CH3 SA1	2019-10-13-18-29-05	A19-14254
959038	664991.7912	5377955.643	TR44 CH3 SA2	2019-10-13-18-30-00	A19-14254
959039	664992.2384	5377956.785	TR44 CH3 SA3	2019-10-13-18-32-27	A19-14254
959040	664991.7558	5377956.959	TR44 CH3 SA4	2019-10-13-18-36-20	A19-14254
959041	664945.1989	5378005.562	TR44 CH4 SA1	2019-10-14-10-34-41	A19-14254
959042	664943.8702	5378006.687	TR44 CH4 SA2	2019-10-14-10-39-11	A19-14254
959043	664943.8921	5378006.734	TR44 CH4 SA3	2019-10-14-10-42-09	A19-14254
959044	664942.7385	5378007.443	TR44 CH4 SA4	2019-10-14-10-44-22	A19-14254
959045	664924.0927	5378054.496	TR44 CH5 SA1	2019-10-14-10-49-13	A19-14254
959046	664923.9417	5378054.342	TR44 CH5 SA2	2019-10-14-10-58-18	A19-14254
959047	664924.7596	5378056.026	TR44 CH5 SA3	2019-10-14-11-04-36	A19-14254
959048	664912.8917	5378061.507	TR44 CH6 SA1	2019-10-14-11-09-20	A19-14254
959049	664911.8103	5378059.961	TR44 CH6 SA2	2019-10-14-11-18-24	A19-14254
959050	664911.8429	5378062.634	TR44 CH6 SA3	2019-10-14-11-19-29	A19-14254
959051	664910.5999	5378061.787	TR44 CH6 SA4	2019-10-14-11-25-07	A19-14254
959052	664908.15	5378062.184	TR44 CH7 SA1 dip 75-80	2019-10-14-11-29-04	A19-14254
959053	664909.0066	5378062.055	TR44 CH7 SA2	2019-10-14-11-35-51	A19-14254
959054	664866.9041	5378100.29	TR44 CH8 SA1	2019-10-14-11-43-54	A19-14254
959055	664866.3194	5378101.356	TR44 CH8 SA2	2019-10-14-11-55-58	A19-14254
959056	664866.4599	5378103.385	TR44 CH8 SA3	2019-10-14-11-59-07	A19-14254
959057	664863.5733	5378109.577	TR44 CH9 SA1	2019-10-14-12-02-26	A19-14254
959058	664864.0382	5378109.646	TR44 CH9 SA2	2019-10-14-12-14-23	A19-14254
959059	664864.0583	5378110.904	TR44 CH9 SA3	2019-10-14-12-15-26	A19-14254
959060	664863.6499	5378111.732	TR44 CH9 SA4	2019-10-14-12-16-36	A19-14254
959061	664863.993	5378111.615	TR44 CH10 SA1	2019-10-14-12-17-43	A19-14254
959062	664809.7033	5378150.414	TR44 CH10 SA2	2019-10-14-12-30-32	A19-14254
959063	664809.7582	5378151.961	TR44 CH10 SA3 Vein	2019-10-14-12-31-57	A19-14254
959064	664809.5141	5378152.51	TR44 CH10 SA4	2019-10-14-12-33-04	A19-14254
959065	664811.3169	5378152.075	channel. 1 sample to twingo 959063 also	2019-10-14-12-50-43	A19-14254
959066	664792.677	5378179.166	TR44 CH12 SA1	2019-10-14-12-58-27	A19-14254
959067	664792.3521	5378179.855	TR44 CH12 SA2	2019-10-14-13-08-05	A19-14254
959068	664792.2134	5378180.772	TR44 CH12 SA3	2019-10-14-13-09-19	A19-14254
959069	664793.6563	5378183.288	TR44 CH12 SA4	2019-10-14-13-14-06	A19-14254
959070	664791.9131	5378182.262	TR44 CH12 SA5	2019-10-14-13-15-19	A19-14254
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959072	664795.9299	5378188.025	TR44 CH13 SA2	2019-10-14-13-26-02	A19-14254
959073	664795.5871	5378189.533	TR44 CH13 SA3 End of trench.	2019-10-14-13-27-14	A19-14254
959074	664795.5871	5378189.533	TR44 CH13 SA3 End of trench.	2019-10-14-13-27-14	A19-14267
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959076	664646.4101	5378038.316	Tr42 Ch1 Sa3	2019-10-14-13-46-08	A19-14267
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959078	664646.4419	5378038.963	Tr42 Ch1 Sa5 end of channel	2019-10-14-13-51-21	A19-14267
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959080	664644.5325	5378043.98	TR42 CH2 SA2	2019-10-14-13-55-52	A19-14267
959081	664644.392	5378044.335	TR42 CH2 SA3 END OF CHANNEL	2019-10-14-13-56-38	A19-14267
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959158	664631.8241	5378594.497	TR43 CH9 SA1	2019-10-15-09-49-47	A19-14258
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959165	664643.2806	5378643.019	TR43 CH11 SA1	2019-10-15-10-02-50	A19-14258
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959172	664644.9034	5378652.167	TR43 CH12 SA5	2019-10-15-10-14-36	A19-14258
959173	664643.9941	5378652.977	TR43 CH12 SA6	2019-10-15-10-16-06	A19-14258
959174	664644.275	5378653.841	TR43 CH12 SA7 END OF CHANNEL	2019-10-15-10-16-30	A19-14258
959175	664643.8966	5378654.831	TR43 CH13 SA1	2019-10-15-10-17-08	A19-14258
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959177	664643.9112	5378657.007	TR43 CH13 SA3	2019-10-15-10-20-08	A19-14258
959178	664642.4094	5378658.144	TR43 CH13 SA4	2019-10-15-10-21-39	A19-14258
959179	664643.9574	5378659.176	TR43 CH13 SA5 END OF CHANNEL	2019-10-15-10-22-16	A19-14258
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959181	665302.9572	5379767.349	TR46 CH1 SA2	2019-10-15-10-41-08	A19-14259
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959183	665302.7623	5379772.248	TR46 CH2 SA2	2019-10-15-10-55-54	A19-14259
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959185	665300.6885	5379771.119	TR46 CH2 SA4	2019-10-15-11-01-39	A19-14259
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959189	665297.6884	5379771.13	TR46 CH2 SA8	2019-10-15-11-06-40	A19-14259
959190	665296.5689	5379770.411	TR46 CH2 SA9 Stopped due to mid hole	2019-10-15-11-07-49	A19-14259
959191	665296.8549	5379772.596	TR46 CH3 SA1	2019-10-15-11-20-25	A19-14259
959192	665295.7621	5379771.707	TR46 CH3 SA2	2019-10-15-11-21-49	A19-14259
959193	665295.1079	5379772.147	TR46 CH3 SA3	2019-10-15-11-23-23	A19-14259
959194	665293.6958	5379772.074	TR46 CH3 SA4	2019-10-15-11-24-29	A19-14259

959195	665293.0708	5379773.573	TR46 CH4 SA1	2019-10-15-11-34-52	A19-14259
959196	665292.5627	5379773.981	TR46 CH4 SA2	2019-10-15-11-39-33	A19-14259
959197	665291.4337	5379773.757	TR46 CH4 SA3	2019-10-15-11-38-39	A19-14259
959198	665289.4289	5379789.477	TR46 CH5 SA1	2019-10-15-11-43-17	A19-14259
959199	665288.2486	5379789.804	TR46 CH5 SA2	2019-10-15-11-45-24	A19-14259
959200	665288.08	5379789.921	TR46 CH5 SA3	2019-10-15-11-46-06	A19-14259
959201	665287.5684	5379789.975	TR46 CH5 SA4	2019-10-15-11-47-08	A19-14259



## 13 Interpretation and Conclusions

The program was successful in confirming historic results and demonstrating that the property holds potential for further discoveries. Three broad mineralization trends have been delineated on the property to date, all of which require further field work to evaluate the potential for minable deposits.

The Moss Lake, or Southern trend is interpreted to represent the southwestern strike extension of the past producing Moss Lake Deposit (formally known as the Snodgrass mine). The area is interpreted to represent a large NE trending folded sequence with a mafic to intermediate core, and an outer felsic to intermediate rim. The volcanic packages have been intruded by early gabbros and later feldspar porphyritic intermediate intrusives which locally host Au-Cu mineralization (e.g., Moss Lake). The Moss trend has several known historic occurrences within our claim boundary (West, Middle, Peace Lake North, Peace Lake South, and the corner zones).



## 14 Recommendations

Future work on the Huronian property should commence with a complete digitization and validation of all historic work over the winter months. It would be invaluable to produce a 3-dimensional model for the Ardeen mine using available data (i.e., drill holes, mine plans, current trenching program, etc.). An accurate model would potentially aid in outlining ore shoots which would greatly increase the success rate of future drill programs. Digitizing data would also benefit prospecting/mapping efforts with the use of historic alteration maps, geophysical surveys, grab samples and trenches.

It is also recommended that the Moss Trend be followed up with a prospecting/mapping program along with a re-examination of all historic occurrences along the trend to properly evaluate the potential. The results from such a program will then be compiled and 'big picture' mineralized trends will outline future targets.





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**16 Appendix I – Mapping**



UTM	Zone	Easting	Northing	Name	Rock type	Carb Alt	Qz alt	Hematite Alt	Description	Picture ID	Date
UTM NAD83, ETRS89	15U	665302.379	5379767.057	HUR19- 350	Mafic Volc			Strong	frg veined mafic bolcanic. several small fields por t the south. well mineralized veins and sheering with Ga Aspy an Py upto 10%in grabs 3-5%overall. strongly oxidized. mapping rushed.	2167	2019-10-12-11-24-41
UTM NAD83, ETRS89	15U	665284.768	5379813.222	HUR19- 349	Mafic Volc			Weak	continuation of massive locally vesicular mafic volcanics		2019-10-12-10-22-10
UTM NAD83, ETRS89	15U	665273.721	5379835.615	HUR19- 348	Mafic Volc Water			Weak	water to north mafic volcanics to south		2019-10-12-10-05-40
UTM NAD83, ETRS89	15U	665265.157	5379845.77	HUR19- 347	Mafic Volc Water			Weak	mafic volc to the north water to the south		2019-10-12-10-02-49
UTM NAD83, ETRS89	15U	665256.913	5379854.355	HUR19- 346	Mafic Volc Water			Weak	water to north. mafic volcanic to the south		2019-10-12-09-53-26
UTM NAD83, ETRS89	15U	665253.482	5379864.085	HUR19- 345	Mafic Volc Flds POR			Weak	flds por to the north mafic volcanic to the south		2019-10-12-09-49-30
UTM NAD83, ETRS89	15U	665252.655	5379860.853	HUR19- 344	Mafic Volc Water			Weak	mafic volcanic to the north. water to the south		2019-10-12-09-46-35
UTM NAD83, ETRS89	15U	665251.815	5379863.185	HUR19- 343	Qz-Fel POR			Weak	Colour structure notes	2150	2019-10-11-19-01-05
UTM NAD83, ETRS89	15U	665232.196	5379892.567	HUR19- 342	Mafic Volc Flds POR			Weak	flds Porphyry to the north. mafic volcanic to the south		2019-10-11-18-43-57
UTM NAD83, ETRS89	15U	665230.666	5379899.316	HUR19- 341	Flds POR Water			Weak	water to the north flds Porphyry to the south		2019-10-11-18-39-57
UTM NAD83, ETRS89	15U	665222.528	5379909.873	HUR19- 340	Flds POR Water			Weak	flds por to the north water the south		2019-10-11-18-38-29
UTM NAD83, ETRS89	15U	665217.224	5379921.322	HUR19- 339	Mafic Volc Flds POR			Weak	mafic volc to the north. int. intrusive to the south. light grey medium equigranilar. contact sheered.		2019-10-11-18-26-50
UTM NAD83, ETRS89	15U	665210.977	5379939.249	HUR19- 338	Mafic Volc Water			Weak	water to north mafic volcanic to south		2019-10-11-18-22-44
UTM NAD83, ETRS89	15U	665495.943	5379544.589	HUR19- 337	Mafic Volc Flds POR			Weak	intermediate intrusive to the north. sheered mafics to the south.		2019-10-11-12-16-17
UTM NAD83, ETRS89	15U	665495.316	5379548.531	HUR19- 336	Mafic Volc Flds POR			Weak	mafic volcanics to north. mgr intermediat intrusive to the south. intrusive is mgr equigranilar likely a diorite. contains 2-3%mgr diss Py. Hard to grab a sample as surface has weathered smooth.	2134	2019-10-11-12-09-24
UTM NAD83, ETRS89	15U	665503.606	5379540.039	HUR19- 335	Mafic Volc Water			Weak	mafics to the north. water to the south.	2131	2019-10-11-12-01-06
UTM NAD83, ETRS89	15U	665472.192	5379558.852	HUR19- 334	Mafic Volc			Weak	mafics continues. there are several sets of cross cutting veins to the north which should be sampled if the first few run.	2130	2019-10-11-11-55-51
UTM NAD83, ETRS89	15U	665410.842	5379630.745	HUR19- 333	Mafic Volc Water			Weak	water to the north extends to end of trench. mafic volcanics to south frg drk grey mafic volcanics. moderate foliation runs Az 190 Locally weakly sheered wnd often very vuggy at surface. 1- 2% mgr diss py in areas of increase sheering.	2120	2019-10-10-16-28-51
UTM NAD83, ETRS89	15U	665091.019	5377764.507	HUR19- 332	Mafic Volc End of Trench			Moderate	frg sheered mafic volcanics. some puddles. occasional veins running either foliation.		2019-10-09-12-57-37
UTM NAD83, ETRS89	15U	665091.295	5377771.773	HUR19- 331	Mafic Volc			Weak	drk grey sheered mafic volcanics.	2116	2019-10-09-12-50-31
UTM NAD83, ETRS89	15U	665090.63	5377773.796	HUR19- 330	Mafic Volc Flds POR			Weak	contact sheering in the mafics.	2115	2019-10-09-12-47-55
UTM NAD83, ETRS89	15U	665090.975	5377776.002	HUR19- 329	Flds POR			None	mgr medium grey with equigranilar qz and Feld xls upto 3mm. unit is devoid of veins and shows weak foliation on the 260 az trend.	2114	2019-10-09-12-42-31
UTM NAD83, ETRS89	15U	665090.703	5377779.365	HUR19- 328	Mafic Volc Flds POR Water			Weak	water to the north. contact between mgr Feldspar porphyry.		2019-10-09-12-27-22
UTM NAD83, ETRS89	15U	665076.85	5377805.116	HUR19- 327	Mafic Volc			Weak	frg medium to dark grey mafic volcanics several small puddles between here and nex poi t to the north. foliation runs roughly 260 fewer cm scale qz veins as we go south and almost no hematite surface alteration. water and overburden to the south.		2019-10-09-12-19-14
UTM NAD83, ETRS89	15U	665000.819	5377906.323	HUR19- 326	Mafic Volc Water			Weak	water to the north mafic volcanics to the south.		2019-10-09-12-13-16
UTM NAD83, ETRS89	15U	664997.975	5377915.46	HUR19- 325	Mafic Volc Water			Weak	mafic volcanics to the north water to the south		2019-10-09-12-07-09
UTM NAD83, ETRS89	15U	664944.764	5378004.689	HUR19- 324	Mafic Volc			Weak	Colour structure notes		2019-10-09-11-17-59
UTM NAD83, ETRS89	15U	664947.24	5378036.56	HUR19- 323	Mafic Volc			Weak	frg grey to drk grey mafic volcanics. weak to locate moderate foiation running Az 260-265 deg. rare sub cm to 1 cm qz veins running with foiation. weak surface hematite alteration. locally vuggy.		2019-10-09-11-08-29
UTM NAD83, ETRS89	15U	664935.548	5378049.588	HUR19- 322	Mafic Volc Water			Weak	water to the north weakly to moderately sheered mafic volcanics to the south		2019-10-09-11-03-09
UTM NAD83, ETRS89	15U	664924.006	5378053.641	HUR19- 321	Mafic Volc Water			Weak	frg sheered mafic vocanicstte north water to the south.		2019-10-09-10-59-11
UTM NAD83, ETRS89	15U	664921.035	5378055.891	HUR19- 320	Mafic Volc Water			Weak	water to the south mv to south 2.5m wide to the north.		2019-10-09-10-56-58
UTM NAD83, ETRS89	15U	664921.903	5378055.766	HUR19- 319	Mafic Volc			Weak	2.5m wide nob of frg drk grey sheered mafic volcanics with common cm scale py bearing qz veins water to north and south	2099	2019-10-09-10-45-14
UTM NAD83, ETRS89	15U	664910.936	5378060.341	HUR19- 318	Mafic Volc Water			Weak	sheered mafic volcanics to the north water to the south		2019-10-09-10-34-56
UTM NAD83, ETRS89	15U	664878.297	5378081.421	HUR19- 317	Mafic Volc Water			Weak	frg amig basalt to the south water to the north	2095	2019-10-09-09-48-41
UTM NAD83, ETRS89	15U	664868.849	5378093.242	HUR19- 316	Mafic Volc Water			Weak	mafic volc to north water to south.	2093	2019-10-06-17-40-31
UTM NAD83, ETRS89	15U	664860.424	5378125.957	HUR19- 315	Mafic Volc Water			None	water to the north, mafic volcanics to the south.		2019-10-06-17-08-51
UTM NAD83, ETRS89	15U	664818.444	5378149.253	HUR19- 314	Mafic Volc Water			None	mafic volcanics to the north, water to the south and goes around the corner in the trench.		2019-10-06-17-02-00

UTM	Zone	Easting	Northing	Name	Rock type	Carb Alt	Qz alt	Hematite Alt	Discription	Picture ID	Date
UTM NAD83, ETRS89	15U	664802.238	5378157.11	HUR19- 313	Mafic Volc Water			Weak	south edge of puddle mafic volcanics to the south mafics are locally vuggy (about 1cm elongate vug are not filled at surface.), with rare barren sub cm qzc veins.		2019-10-06-16-32-04
UTM NAD83, ETRS89	15U	664794.078	5378187.492	HUR19- 312	Mafic Volc Water			Weak	north edge of puddle. mafic volcanics to the north. sheered at waters edge.		2019-10-06-15-57-13
UTM NAD83, ETRS89	15U	664794.713	5378189.687	HUR19- 311	Mafic Volc			Weak	Fgr dark grey with localized vuggy carbonate blotches occasional sub cm qz veins	2081	2019-10-06-15-44-32
UTM NAD83, ETRS89	15U	664642.196	5378640.94	HUR19- 310	Mafic Volc Mafic Derived Seds			Weak	mafic volcanics to the south. mafic derived seds and iron formation to the north. Mafic seds are dark grey to black highly magnetic with stronger foliation then mafics to the south.		2019-10-05-17-12-42
UTM NAD83, ETRS89	15U	664643.108	5378656.038	HUR19- 309	Mafic Derived Seds Iron formation			Weak	bands of mafic seds wnd iron formation. highly magnetic locally. common chert and mds bands.	2077	2019-10-05-17-10-38
UTM NAD83, ETRS89	15U	664643.029	5378641.406	HUR19- 308	Mafic Volc			Weak	fgr medium to dark grey weak patchy chlorite. common sheer zones with cm scale qz and qzc veins.	2076	2019-10-05-17-04-34
UTM NAD83, ETRS89	15U	664635.892	5378604.766	HUR19- 307	Iron formation Int. volcanic			Weak	fgr drk grey iron formation and mafic seds to the south. intermediate volcanics to the north.	2075	2019-10-05-17-00-07
UTM NAD83, ETRS89	15U	664622.743	5378579.375	HUR19- 306	Iron formation Overburden			Weak	trail crosses trench.		2019-10-05-16-38-09
UTM NAD83, ETRS89	15U	664614.852	5378577.284	HUR19- 305	Iron formation Overburden			Weak	trail crosses trench		2019-10-05-16-35-37
UTM NAD83, ETRS89	15U	664613.993	5378568.366	HUR19- 304	Mafic Derived Seds Iron formation			Moderate	fgr medium to dark gre. mafic seds and weak iron formation to the south iron formation to the north.		2019-10-05-16-27-42
UTM NAD83, ETRS89	15U	664618.154	5378557.266	HUR19- 303	Mafic Volc Mafic Derived Seds			Weak	mafic volcanics to south mafic derived seds and weak iron formation to the north. mafic seds mixed with mafic volcanics.	2070	2019-10-05-16-16-11
UTM NAD83, ETRS89	15U	664617.192	5378532.893	HUR19- 302	Mafic Volc Iron formation			Weak	fgr drk grey iron formation to the south mafic volc or mafic derived seds to north. contact is veined and runs from this point dow east edge of trench.		2019-10-05-15-29-14
UTM NAD83, ETRS89	15U	664595.607	5378515.993	HUR19- 301	Iron formation Water			Weak	north edge of water. dirty iron formation running N-S in trench.	2065	2019-10-05-15-00-32
UTM NAD83, ETRS89	15U	664587.515	5378504.225	HUR19- 300	Water			Weak	compass reads EAST.		2019-10-05-14-58-47
UTM NAD83, ETRS89	15U	664594.282	5378504.686	HUR19- 299	Mafic Volc Mafic Derived Seds Iron formation			Weak	mafic volcanics to the east with Mafic derived seds grading to dirty iron formation to the west and north. west corner from edge JFK red to edge of trench is water.		2019-10-05-14-56-11
UTM NAD83, ETRS89	15U	664597.267	5378506.178	HUR19- 298	Mafic Volc Overburden			Weak	trail crosses the trench		2019-10-05-14-47-43
UTM NAD83, ETRS89	15U	664600.935	5378503.186	HUR19- 297	Mafic Volc			Weak	no vesicals.		2019-10-05-14-45-20
UTM NAD83, ETRS89	15U	664610.756	5378503.571	HUR19- 296	Mafic Volc			None	vesicals. Upton 15 cm in diameter not stretched locally up to 40% of the rock.	2059	2019-10-05-14-35-55
UTM NAD83, ETRS89	15U	664660.011	5377998.565	HUR19- 295	Mafic Volc Start of trench			None	fgr drk grey w ith moderate foliation running AZ 240. Locally vesicular with pillows to the north. occasional qz veins typically barren. rare cm to dm scale QzC veins in sheers with Py and lester Cpy. these veins are strongly weathered (see photos in structures).	2056	2019-10-05-11-01-11
UTM NAD83, ETRS89	15U	664645.401	5378043.079	HUR19- 294	Mafic Volc			Weak	qzc vein with Py to south of this point otherwise trace Py and weak surface hematite alteration.		2019-10-02-18-21-32
UTM NAD83, ETRS89	15U	664640.568	5378043.593	HUR19- 293	Mafic Volc Overburden			Weak	road crosses trench.		2019-10-02-18-08-11
UTM NAD83, ETRS89	15U	664635.077	5378043.596	HUR19- 292	Mafic Volc Overburden			Weak	road crosses trench.		2019-10-02-18-07-29
UTM NAD83, ETRS89	15U	664629.739	5378048.176	HUR19- 291	Mafic Volc Water			Weak	s edge of mafic volcanics and water.		2019-10-02-18-05-26
UTM NAD83, ETRS89	15U	664628.766	5378058.697	HUR19- 290	Mafic Volc Water			Weak	n edge of water and mafic volcanics		2019-10-02-18-04-11
UTM NAD83, ETRS89	15U	664626.737	5378060.664	HUR19- 289	Mafic Volc			Weak	Drk grey intermedoate to mafic volcanics.	1905	2019-10-02-18-02-16
UTM NAD83, ETRS89	15U	664608.241	5378118.657	HUR19- 288	Mafic Volc Water			Weak	south edge of puddle with mafic volcanics. strong sheering first 2 m from edge of water. no major veins or sulfides.	1903	2019-10-02-17-45-04
UTM NAD83, ETRS89	15U	664608.241	5378118.657	HUR19- 287	Mafic Volc Water			Weak	sheered chlorite rich mafic volcanics to north edge of puddle.	1902	2019-10-02-17-45-04
UTM NAD83, ETRS89	15U	664598.325	5378146.01	HUR19- 286	Mafic Volc			Weak	foliated mafic volcanics. foliation Az 250-255		2019-10-02-17-34-49
UTM NAD83, ETRS89	15U	664603.468	5378147.684	HUR19- 285	Mafic Volc Overburden			Weak	road crosses trench.		2019-10-02-17-31-51
UTM NAD83, ETRS89	15U	664601.979	5378174.144	HUR19- 284	Mafic Volc Overburden			None	road crosses trench.		2019-10-02-17-09-40
UTM NAD83, ETRS89	15U	664601.979	5378174.144	HUR19- 283	Mafic Volc			Weak	Colour structure notes		2019-10-02-17-09-40
UTM NAD83, ETRS89	15U	664601.979	5378174.144	HUR19- 282	Mafic Volc			Weak	vesicals white qz carb.	1894	2019-10-02-17-09-40
UTM NAD83, ETRS89	15U	664596.693	5378195.711	HUR19- 281	Mafic Volc Water			Weak	south edge of water. massive weakly foliated mafic volcanics. lacks the vesicals of mafics to the north.	1890	2019-10-02-15-17-11
UTM NAD83, ETRS89	15U	664585.774	5378215.133	HUR19- 280	Mafic Volc Water			None	north edge of puddle vesicular basalt to the north.	1889	2019-10-02-15-12-15
UTM NAD83, ETRS89	15U	664576.665	5378235.62	HUR19- 279	Mafic Volc Water			None	mafic volcanics with fewer vesicals than to the north of the water. south edge of water		2019-10-02-15-05-34
UTM NAD83, ETRS89	15U	664564.519	5378254.824	HUR19- 278	Mafic Volc Water			None	n edge of water.		2019-10-02-15-03-13

UTM	Zone	Easting	Northing	Name	Rock type	Carb Alt	Qz alt	Hematite Alt	Discription	Picture ID	Date
UTM NAD83, ETRS89	15U	664561.822	5378256.456	HUR19- 277	Mafic Volc Overburden			Weak	ed crosses trench. vesicular basalt	1886	2019-10-02-15-01-40
UTM NAD83, ETRS89	15U	664557.082	5378253.037	HUR19- 276	Mafic Volc Overburden			None	road crosses trench.		2019-10-02-14-59-45
UTM NAD83, ETRS89	15U	664548.719	5378266.263	HUR19- 275	Mafic Volc			None	vesicals make up 30%of rock. Upton 5 cm wide and 15 cm long	1884	2019-10-02-14-53-04
UTM NAD83, ETRS89	15U	664547.144	5378275.986	HUR19- 274	Mafic Volc Mafic Derived Seds Water			Weak	medium to dark grey, may be a minor mafic derived seds or just flow top. . distinct rounded vesicals up to 3 cm in diameter, common 2-4 irregularly shaped mafic clasts as well.	1883	2019-10-02-14-28-50
UTM NAD83, ETRS89	15U	664529.358	5378303.355	HUR19- 273	Mafic Volc Water Overburden			Weak	edge of mafics with water and overburden to the sout. rock in water to south appears to be sheered at AZ 95 but stops at edge of water so this may just be due to water freezing and thawing	1882	2019-10-02-14-09-12
UTM NAD83, ETRS89	15U	664522.074	5378340.325	HUR19- 272	Diabase			Weak	fgr dark grey mafic volcanics. weak surface hemitite alteration. locally vuggy which may rep flow tops. no visible plows. occasional 3-5cm qz and qzc veins.	1880	2019-10-02-13-19-30
UTM NAD83, ETRS89	15U	664522.512	5378342.967	HUR19- 271	Mafic Volc Water			Weak	edge of water and mafic volcanics.		2019-10-02-13-11-14
UTM NAD83, ETRS89	15U	664519.26	5378352.615	HUR19- 270	Mafic Volc Int. volcanic			Weak	fgr medium to dark grey with distinctive vugs. patch of outcrop 4m long in large puddle. 1.1cm wide white qz vein running AZ 254 deg. surface is weathered white and small broken pieces are medium to dark grey. .	1878	2019-10-02-13-04-40
UTM NAD83, ETRS89	15U	664515.455	5378366.1	HUR19- 269	Int. volcanic Water			Weak	n edge of water at int to mafic volcanics	1877	2019-10-02-12-54-56
UTM NAD83, ETRS89	15U	664509.92	5378377.782	HUR19- 268	Int. volcanic			Weak	fgr light grey strongly foliated locally sericitized int distjcty phylitic in sheers and may be minor seds in these areas. foliation and sheering runs AZ 50	1875	2019-10-02-12-40-35
UTM NAD83, ETRS89	15U	664510.388	5378380.372	HUR19- 267	Overburden			None	road crosses trench.		2019-10-02-12-23-58
UTM NAD83, ETRS89	15U	664507.854	5378389.629	HUR19- 266	Overburden			None	road crossed trench		2019-10-02-12-22-32
UTM NAD83, ETRS89	15U	664506.95	5378398.708	HUR19- 265	Int. volcanic			Moderate	medium grey intermediate volcanics. may be a tuff but no visable lapilli fragments. locally 2-3%fgr diss Py trench crosses the road south of here		2019-10-02-11-54-25
UTM NAD83, ETRS89	15U	664505.065	5378407.375	HUR19- 264	Intermediate to mafic lapilli tuff			Weak	fgr light grey with distinctive sub cm scaleafic lapilli fragments often but not always stretched east-west. no major pervasive sulfides.	1869	2019-10-01-16-23-10
UTM NAD83, ETRS89	15U	664502.706	5378429.094	HUR19- 263	Mafic Volc			Weak	uniform fgr intermediate volcanics. no major sulfides. except for veins odd alteration (surface) on broken pieces.	1864	2019-10-01-15-30-16
UTM NAD83, ETRS89	15U	664506.024	5378431.801	HUR19- 262	Mafic Derived Seds Iron formation			Weak	locally MT rich with elevated Py, especially near veins.		2019-10-01-14-45-36
UTM NAD83, ETRS89	15U	664511.977	5378445.927	HUR19- 261	Mafic Derived Seds Iron formation			None	drk grey strongly weathered. locally up to 10%fgr diss and stringer Py, locally Heavy MT with Hemitite alt No major chert beds. . poor exposure and lots of rubble remains. can be called poorly developed iron formation.	1858	2019-10-01-14-06-41
UTM NAD83, ETRS89	15U	664513.217	5378446.384	HUR19- 260	Water			Weak	water and overburden from here to end of trench		2019-10-01-13-57-34
UTM NAD83, ETRS89	15U	663923.048	5376927.838	HUR19- 259	Mafic Volc Water			Weak	mafic volcanics water to the north west		2019-09-29-16-12-55
UTM NAD83, ETRS89	15U	663920.669	5376927.832	HUR19- 258	Flds POR Water			Weak	Feldspar porphry, water to the south east		2019-09-29-16-12-13
UTM NAD83, ETRS89	15U	663917.618	5376928.708	HUR19- 257	Flds POR			Weak	start of Feldspar porphry, Feldspar up to .5cm in size,	1852	2019-09-29-16-05-54
UTM NAD83, ETRS89	15U	663911.106	5376932.426	HUR19- 256	Mafic Volc			Weak	Start of mafic volcanics.		2019-09-29-15-57-54
UTM NAD83, ETRS89	15U	663908.379	5376933.998	HUR19- 255	Int. volcanic		strong	Weak	Intermediate volcanics, strong QZ alteration( highly Silicified) grey colour very fine grain.	1847	2019-09-29-15-54-04
UTM NAD83, ETRS89	15U	663905.885	5376935.291	HUR19- 254	Mafic Volc Water			Moderate	Mafic volcanics, fine grain, vesicles, disseminated sulphides 2%, water to the north west.		2019-09-29-15-40-56
UTM NAD83, ETRS89	15U	663901.372	5376936.426	HUR19- 253	Mafic Volc Water			Weak	mafic volcanics water to the south east		2019-09-29-15-36-35
UTM NAD83, ETRS89	15U	663897.444	5376938.674	HUR19- 252	Mafic Volc Water			Moderate	Mafic volcanics, fine grain dark, Vesicular like texture, vesicles are stretched oval shape possibly weathered out Lapilli (no lapilli observed) fine disseminated sulphides 2%. water to North west	1842	2019-09-29-15-27-22
UTM NAD83, ETRS89	15U	663896.514	5376940.074	HUR19- 251	Int. volcanic Water			Moderate	Intermediate volcanics water to the south east		2019-09-29-15-25-56
UTM NAD83, ETRS89	15U	663889.261	5376940.906	HUR19- 250	Int. volcanic			Moderate	Intermediate volcanics, grey, fine grain, disseminated sulphides 1-2%.	1838	2019-09-29-15-16-45
UTM NAD83, ETRS89	15U	663889.157	5376941.968	HUR19- 249	Mafic Volc			Moderate	Mafic volcanics, sulphides 1-2% throughout mafic volcanics.	1837	2019-09-29-15-04-14
UTM NAD83, ETRS89	15U	663883.948	5376943.595	HUR19- 248	Start of trench			None	start of the trench	1835	2019-09-29-14-27-03
UTM NAD83, ETRS89	15U	663884.312	5376941.556	HUR19- 247	Mafic Volc Water			Moderate	Mafic volcanics, dark grey, fine grain, moderate Hematite alteration, water to the Northwest	1834	2019-09-29-14-22-19
UTM NAD83, ETRS89	15U	664406.374	5376819.726	HUR19- 246	End of Trench			None	end of trench	1568	2019-09-26-11-08-25
UTM NAD83, ETRS89	15U	664397.111	5376835.646	HUR19- 245	Intermediate lapilli tuff			Strong	Intermediate lapilli tuff, strong hematite alteration, lapilli up to 15cm across.	1564	2019-09-26-10-40-54
UTM NAD83, ETRS89	15U	664397.146	5376835.991	HUR19- 244	Qz-Fel POR			Strong	Qz-feld Porphery, fine grain, strong hematite alteration	1562	2019-09-26-10-37-52
UTM NAD83, ETRS89	15U	664397.387	5376836.989	HUR19- 243	Intermediate lapilli tuff Water			Strong	Intermediate lapilli tuff water to the south		2019-09-26-10-36-25
UTM NAD83, ETRS89	15U	664397.816	5376837.989	HUR19- 242	Intermediate lapilli tuff			Strong	Intermediate lapilli tuff, strong hematite alteration	1560	2019-09-26-10-34-22
UTM NAD83, ETRS89	15U	664395.888	5376838.888	HUR19- 241	Water Intermediate to mafic lapilli tuff			None	intermediate to mafic lapilli tuff water to the north		2019-09-26-10-20-15
UTM NAD83, ETRS89	15U	664395.751	5376841.029	HUR19- 240	Water Intermediate to mafic lapilli tuff			None	intermediate to mafic lapilli tuff water to the south		2019-09-26-10-19-21
UTM NAD83, ETRS89	15U	664394.914	5376843.679	HUR19- 239	Water Intermediate to mafic lapilli tuff			None	intermediate to mafic lapilli tuff water to the north		2019-09-26-10-18-00
UTM NAD83, ETRS89	15U	664393.151	5376851.667	HUR19- 238	Water Intermediate to mafic lapilli tuff			None	intermediate to mafic lapilli tuff water to the south		2019-09-26-10-13-51
UTM NAD83, ETRS89	15U	664392.887	5376854.426	HUR19- 237	Water Intermediate to mafic lapilli tuff			None	Intermediate to mafic lapilli tuff water to the north, dark grey green lapilli present,	1553	2019-09-26-10-09-58
UTM NAD83, ETRS89	15U	664389.179	5376871.043	HUR19- 236	Water Intermediate to mafic lapilli tuff			None	intermediate to mafic lapilli tuff water to south		2019-09-25-15-10-17







UTM	Zone	Easting	Northing	Name	Rock type	Carb Alt	Qz alt	Hematite Alt	Discription	Picture ID	Date
UTM NAD83, ETRS89	15U	664160.053	5376740.989	HUR19- 53	Mafic Volc			Moderate	FGR Medium to dark grey with moderate to locally strong sheering, notable darker and softer the FPO to the north. 2-3%fgr disseminated and QzC vein associated, 3-5% at veins.	1005	2019-09-13-11-54-26
UTM NAD83, ETRS89	15U	664157.345	5376742.127	HUR19- 52	Mafic Volc Water			Weak	South edge of water. Sheered mafic volc to the south		2019-09-13-11-45-36
UTM NAD83, ETRS89	15U	664152.84	5376750.079	HUR19- 51	Water			None	n edge of ponded water. sheered felds PO to the north.		2019-09-13-11-42-07
UTM NAD83, ETRS89	15U	664147.738	5376758.058	HUR19- 50	Flds POR End of Trench			Moderate	Medium grained grey with locally distinct 2-5mm scale feldspars. Moderate to strong sheering at roughly 60Az has locally destroyed feldspars. Common sub cm scale veins run roughly 40 deg Az. 1-2%fgr and mgr fc and vein associated Py. Common fractures running roughly Az 35 and 155. 155 Az fractures show elevated sulfides locally	1000	2019-09-12-15-51-09
UTM NAD83, ETRS89	15U	665173.673	5375907.128	HUR19- 49	Mafic Volc			Weak	medium grey, smae as unit to the north. end of trench.	998	2019-09-09-13-51-24
UTM NAD83, ETRS89	15U	665166.921	5375934.765	HUR19- 48	Int. volcanic			Weak	Fgr medium grey. notably lighter in colour them material 15m north. no visible contact. may just be pervasive silicification or zone of metaseds.		2019-09-09-13-43-32
UTM NAD83, ETRS89	15U	665154.263	5375958.962	HUR19- 47	Mafic Volc Water			Weak	south edge of water, sheered mafic volcanics to the south.	995	2019-09-09-13-29-56
UTM NAD83, ETRS89	15U	665143.381	5375968.83	HUR19- 46	Mafic Volc Water			Weak	north edge of pond. Pillowed mafic volcanics to the north.		2019-09-09-13-27-40
UTM NAD83, ETRS89	15U	665137.431	5375975.776	HUR19- 45	Mafic Volc Water			Weak	South edge of puddle. strongly sheered mafic volcanics to the south.	993	2019-09-09-13-22-46
UTM NAD83, ETRS89	15U	665128.975	5375987.914	HUR19- 44	Mafic Volc Water			Moderate	north edge of ponder water. Mafic volc to the north.		2019-09-09-13-19-43
UTM NAD83, ETRS89	15U	665117.107	5376014.15	HUR19- 43	Mafic Volc Water			Weak	south edge of larger puddle. strongly sheered mafic volcanics with 2-3% fgr disseminated Py to the south.	991	2019-09-09-13-12-08
UTM NAD83, ETRS89	15U	665111.508	5376033.715	HUR19- 42	Mafic Volc			Weak	4m wide ridge of strongly sheered mafic volcanics in the middle of the big puddle. common mm scale qz veinlets in southern portion.		2019-09-09-13-07-10
UTM NAD83, ETRS89	15U	665102.602	5376044.742	HUR19- 41	Mafic Volc Water			Weak	Variably sheered mafic volcanics to the koth. ponding to the south.		2019-09-09-12-59-52
UTM NAD83, ETRS89	15U	665096.653	5376057.534	HUR19- 40	Qz-Fel POR Mafic Volc			None	small ridge of M volcanics in puddle. contact. QFP to the north. Mafic volc to south. see photo	988	2019-09-09-12-54-02
UTM NAD83, ETRS89	15U	665095.336	5376058.978	HUR19- 39	Qz-Fel POR			None	CGR Light to medium grey, unaltered.	987	2019-09-09-12-46-29
UTM NAD83, ETRS89	15U	665091.687	5376071.829	HUR19- 38	Qz-Fel POR			Weak	Light grey QFP. Locally QP in areas of increased sheering(see structures) over 1-3m. Locally 2-3%FC Py associated with the sheers		2019-09-09-12-42-14
UTM NAD83, ETRS89	15U	665087.439	5376079.926	HUR19- 37	Qz-Fel POR Int. volcanic			None	Sharp unbroken contact. QFP to the south. Int volc to north.	985	2019-09-08-16-04-10
UTM NAD83, ETRS89	15U	665087.743	5376083.673	HUR19- 36	Water			Weak	south edge of puddle. litho contact under puddle		2019-09-08-15-53-50
UTM NAD83, ETRS89	15U	665087.168	5376084.076	HUR19- 35	Qz-Fel POR			Weak	weakly foliated QFP. No major sulfides, contac under water. int volc north of puddle.	982	2019-09-08-15-51-38
UTM NAD83, ETRS89	15U	665084.544	5376089.158	HUR19- 34	Water			None	south edge of water. int to mafic volc to south		2019-09-08-15-48-09
UTM NAD83, ETRS89	15U	665079.345	5376097.888	HUR19- 33	Water			Weak	north edge of wter. int volc to the north.		2019-09-08-15-45-54
UTM NAD83, ETRS89	15U	665074.93	5376107.497	HUR19- 32	Mafic Volc Int. volcanic			Weak	medium to dark grey patchy phytic and chlorine alt. likely an intermediate volc. no major sulfides, no northern contact.		2019-09-08-15-31-33
UTM NAD83, ETRS89	15U	665072.451	5376110.996	HUR19- 31	Water			Weak	south edge of water. puddle 6m long. not practical to get north edge		2019-09-08-15-30-02
UTM NAD83, ETRS89	15U	665056.837	5376139.686	HUR19- 30	Qz-Fel POR			Weak	Away from contact.	977	2019-09-08-15-15-17
UTM NAD83, ETRS89	15U	665055.934	5376140.871	HUR19- 29	QZ POR			Weak	North edge of 1st Porphyry. trace possible feldspar but distinct Qz eyes could be labeled QFP. N edge denoted by contact sheering and frag-2,zzental texture in the northern sheer (See notes in structure KES-HUR -28). Qz and felds become mgr and evident about 2-3 m s of contact.increasef Sulfides seem to be constrained to sheers and are locally up to 2% (Py).	976	2019-09-08-15-04-10
UTM NAD83, ETRS89	15U	665047.445	5376157.598	HUR19- 28	Water			None	s edge of water. sheering observed at waters edge		2019-09-08-14-42-32
UTM NAD83, ETRS89	15U	665029.694	5376175.528	HUR19- 27	Water			None	N edge of water.		2019-09-08-14-40-09
UTM NAD83, ETRS89	15U	665029.985	5376178.602	HUR19- 26	Mafic Volc			Weak	Fgr drk grey mafic volcanics, 3-5% sheer controlled fgr disseminated Py. 2 sheers with 3 m of dead rock between them.		2019-09-08-14-37-03
UTM NAD83, ETRS89	15U	665007.682	5376205.93	HUR19- 25	Mafic Volc			Weak	mfr dark grey with to mod chl. appears slightly darker than unit to north. This may all be mafic volc with variable alt. and silicification		2019-09-08-14-23-10
UTM NAD83, ETRS89	15U	665004.456	5376218.332	HUR19- 24	Water			Weak	south edge of wter		2019-09-08-14-09-59
UTM NAD83, ETRS89	15U	664996.217	5376233.156	HUR19- 23	Water			Weak	n edge of ponded water		2019-09-08-14-07-19
UTM NAD83, ETRS89	15U	664992.597	5376233.974	HUR19- 22	Mafic Volc	None	localized	Weak	Sheered mafic volcanics, fgr medium to dark grey. sheering may rep possible metaseds, as rare garnets were observed. sheers show elevated Py No major veins observed.	969	2019-09-08-13-48-05
UTM NAD83, ETRS89	15U	664092.407	5376547.989	HUR19- 21	Mafic Volc End of Trench			Weak	n end of trench. mafic volcanics unsheltered and plunging north into swamp	945	2019-08-31-15-53-11
UTM NAD83, ETRS89	15U	664094.667	5376534.971	HUR19- 20	Mafic Volc			Weak	n edge of water ponding.		2019-08-31-15-48-17
UTM NAD83, ETRS89	15U	664103.647	5376510.686	HUR19- 19	Water			None	Sheered mafic volcanics Az 84 Dip -65-70. Colour structure notes		2019-08-31-15-46-40
UTM NAD83, ETRS89	15U	664102.165	5376504.533	HUR19- 18	Mafic Volc Start of trench			Weak	sheered mafic volcanics, the same as across the trail.		2019-08-31-15-42-53
UTM NAD83, ETRS89	15U	664126.744	5376511.041	HUR19- 17	Overburden			None	trench continues across the trail.		2019-08-31-15-40-46

UTM	Zone	Easting	Northing	Name	Rock type	Carb Alt	Qz alt	Hematite Alt	Discription	Picture ID	Date
UTM NAD83, ETRS89	15U	664128.368	5376496.417	HUR19- 16	Mafic Volc			Weak	n edge of ponding and overburden. moderate shearing at 75-80deg as and 65-80deg plunge. weak hematite alteration and rare cm scale qz veins.		2019-08-31-15-34-18
UTM NAD83, ETRS89	15U	664129.191	5376489.774	HUR19- 15	Water Overburden			None	South edge of water and overburden		2019-08-31-15-31-56
UTM NAD83, ETRS89	15U	664132.915	5376471.941	HUR19- 14	Mafic Volc			Weak	n edge of ponding		2019-08-31-15-21-48
UTM NAD83, ETRS89	15U	664132.804	5376454.12	HUR19- 13	Water			None	s edge of ponding		2019-08-31-15-19-23
UTM NAD83, ETRS89	15U	664133.48	5376453.01	HUR19- 12	Mafic Volc			None	north edge of water ponding		2019-08-31-15-18-44
UTM NAD83, ETRS89	15U	664134.725	5376448.128	HUR19- 11	Water			Weak	south edge of ponding		2019-08-31-15-16-15
UTM NAD83, ETRS89	15U	664136.588	5376428.559	HUR19- 10	Mafic Volc			Strong	medium grey with strong hematite north edge of water hole. sheared at the edge of the water.	927	2019-08-31-15-02-26
UTM NAD83, ETRS89	15U	664125.351	5376402.205	HUR19- 9	Water			Weak	s edge of water hole		2019-08-31-14-59-30
UTM NAD83, ETRS89	15U	664119.287	5376393.152	HUR19- 8	Mafic Volc			Weak	north edge of water		2019-08-31-14-52-17
UTM NAD83, ETRS89	15U	664119.91	5376378.142	HUR19- 7	Water			Weak	Colour structure notes		2019-08-31-14-49-51
UTM NAD83, ETRS89	15U	664121.35	5376368.901	HUR19- 6	Mafic Volc			None	same as to south.		2019-08-31-14-40-27
UTM NAD83, ETRS89	15U	664141.03	5376340	HUR19- 5	Mafic Volc	Carb W	Weak	Moderate	sheered		2019-08-31-14-22-31
UTM NAD83, ETRS89	15U	664143.224	5376334.144	HUR19- 4	Mafic Volc	None	Weak	None	dark grey fine grained minor sulfites near contact . grab sample taken		2019-08-30-11-45-17
UTM NAD83, ETRS89	15U	664144.715	5376332.724	HUR19- 3	Flds POR			Weak	no distinct fragments of unit to the south		2019-08-30-11-34-39
UTM NAD83, ETRS89	15U	664151.744	5376323.625	HUR19- 2	Intermediate lapilli tuff Flds POR		Weak	Weak	sheared and brecciated intermediate feldspar porphyry		2019-08-30-11-20-02
UTM NAD83, ETRS89	15U	664148.811	5376304.077	HUR19- 1	Start of trench			Weak	Colour structure notes		2019-08-30-11-19-37





**17 Appendix II – Structure**

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 275	463.806	665298.308	5379770.852	sheer	332	0	8-10m wide	2019-10-12-11-06-34
HUR19- 274	464.626	665288.624	5379791.478	sheer	332	0	2.5m wide	2019-10-12-10-59-54
HUR19- 273	467.662	665290.825	5379799.4	vein	40	0	8cm wide	2019-10-12-10-45-57
HUR19- 272	467.552	665289.063	5379806.228	Dyke	75	80	qp 50cm wide	2019-10-12-10-30-52
HUR19- 271	465.469	665287.039	5379809.663	sheer	338	80	1m wide	2019-10-12-10-23-52
HUR19- 270	464.52	665278.756	5379822.562	sheer	140	80		2019-10-12-10-18-03
HUR19- 269	465.457	665281.073	5379824.953	Foliation	355	0		2019-10-12-10-16-35
HUR19- 268	462.923	665274.498	5379832.924	vein	170	75	3 5-10cm veins over 2m	2019-10-12-10-06-28
HUR19- 267	462.969	665258.74	5379851.331	sheer	32	80	2.5m wide. oxidized	2019-10-12-10-00-06
HUR19- 266	466.813	665252.325	5379863.66	Dyke	30	0	south edge of flds por	2019-10-12-09-50-50
HUR19- 265	467.376	665246.838	5379870.87	fracture sheer	340	0	3m wide sheer	2019-10-11-18-51-43
HUR19- 264	463.423	665236.743	5379885.461	fracture	330	70	50 cm wide cross cut by east west trending structure to the north	2019-10-11-18-48-09
HUR19- 263	462.009	665234.144	5379890.756	Foliation sheer	40	0		2019-10-11-18-45-53
HUR19- 261	456.598	665220.225	5379915.457	vein fracture	86	0	fracture with 2cm py bearing qz vein	2019-10-11-18-33-29
HUR19- 260	455.961	665216.146	5379920.941	sheer Dyke	28	0		2019-10-11-18-30-09
HUR19- 259	452.107	665212.606	5379931.459	sheer	20	0	1m wide. partially covered by overburden	2019-10-11-18-24-35
HUR19- 258	458.009	665425.04	5379598.128	Dyke	82	0	40 cm wide int to mafic dyke.	2019-10-11-12-22-55
HUR19- 257	459.869	665496.432	5379545.172	Dyke	4	0	South edge	2019-10-11-12-17-30
HUR19- 256	454.181	665496.019	5379550.05	Dyke	2	0	North edge.	2019-10-11-12-07-43
HUR19- 255	460.089	665506.333	5379538.677	Foliation	346	0		2019-10-11-12-03-33
HUR19- 254	461.499	665472.122	5379558.65	Foliation	352	0		2019-10-11-11-55-24
HUR19- 253	459.253	665447.76	5379570.03	vein joint	44	0	junction of cross cutting veins. sulfides bearing vein runs qz 44 less sulfides in vein running 110 az 44 vein seems to punch and swell more then the other. sampled at junction. of veins.	2019-10-11-11-37-34
HUR19- 253	459.288	665443.923	5379574.025	vein joint	44	0	junction of cross cutting veins. sulfides bearing vein runs qz 44 less sulfides in vein running 110 az 44 vein seems to punch and swell more then the other. sampled at junction. of veins.	2019-10-11-11-32-53
HUR19- 251	459.383	665443.87	5379573.928	vein sheer	4	0		2019-10-11-11-32-37
HUR19- 250	460.373	665443.437	5379571.15	vein	265	0	1-3 cm qz vein cross cuts primary foliation	2019-10-11-11-26-56
HUR19- 249	459.732	665436.58	5379575.977	sheer	10	85	1 m wide strongly sheered mafic volcanics.	2019-10-10-17-16-23
HUR19- 248	458.86	665427.745	5379591.342	sheer	350	0	oxidized fracture zone or sheer . cross cuts both veins to the north. . note vei in photo.	2019-10-10-17-10-57
HUR19- 247	456.082	665426.37	5379599.515	vein	100	55	5 cm wide qz vein running across fol at nearly 90 degrees there are also a series of fractures north of the vein running parallel to the vein.	2019-10-10-16-50-58
HUR19- 246	454.647	665415.664	5379618.41	sheer	190	0		2019-10-10-16-40-03

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 245	454.401	665408.923	5379624.608	Foliation	10	75		2019-10-10-16-34-16
HUR19- 244	452.594	665091.118	5377771.422	Foliation sheer	270	0	sheering in contact and trend for 3 m to the south.	2019-10-09-12-51-09
HUR19- 243	452.282	665091.591	5377777.402	sheer	276	0	Contact sheering in mafic volcanics	2019-10-09-12-30-10
HUR19- 242	455.562	664944.764	5378004.689	sheer	280	70		2019-10-09-11-17-59
HUR19- 241	455.562	664944.764	5378004.689	vein	256	75	vein 5 cm wide with a 1 cm vein roughly 15 cm south	2019-10-09-11-17-59
HUR19- 240	451.042	664936.934	5378048.006	Foliation	266	0		2019-10-09-11-06-08
HUR19- 239	452.601	664921.778	5378055.618	sheer	264	0	2.5 m wide	2019-10-09-10-53-52
HUR19- 238	452.615	664909.156	5378063.348	sheer	260	75	30 cm seer with 2 cm scale qzc veins	2019-10-09-10-02-28
HUR19- 237	452.617	664892.482	5378073.726	Foliation sheer	260	65	1 wide shows some deflection around 255 to 270 with outcrop. na a for veins no significant increase in sulfides.	2019-10-09-09-53-57
HUR19- 236	453.69	664863.87	5378111.029	fracture sheer	270	60	area of tightly spaces fractures, bearing a sheered texture with increased Py and 2 small veins	2019-10-09-09-42-58
HUR19- 235	-1	664808.769	5378110.736	sheer	252	75	wrong point	2019-10-06-17-27-37
HUR19- 234	452.671	664861.438	5378125.504	fracture	130	0	a series of 3 frctures running Az 130 ishikawa offsetting qzc vein	2019-10-06-17-17-15
HUR19- 233	452.78	664860.986	5378124.433	vein	255	80	3-5cm wide Qzc vein displaced by later fractures.	2019-10-06-17-11-43
HUR19- 232	453.154	664810.486	5378152.53	vein	0	0	3-8 cm QZC vein with strong staining. Notably PYalong edges. vein appears to punch and swell.	2019-10-06-16-38-26
HUR19- 231	453.747	664794.078	5378187.492	sheer	244	0	4m wide shering with 3-5 %fgr py locally strongly oxidized.	2019-10-06-15-57-13
HUR19- 230	454.579	664793.218	5378187.532	sheer	260	65	50 cm sheer zone south of and crushing the veins to the north	2019-10-06-15-52-39
HUR19- 229	453.736	664794.955	5378187.945	vein	248	0	Three sub cm qz veins within1m.	2019-10-06-15-48-43
HUR19- 228	454.267	664616.847	5378568.809	vein	0	0	1.2 m wide stock work of east west trending mm to5 cm wide qz veins. minor Py in veins, locally moderate pink staining.	2019-10-05-16-30-30
HUR19- 227	454.328	664619.456	5378543.781	bedding	248	65	estimate during to magnetics. inferred from observations of unit to the north.	2019-10-05-15-40-36
HUR19- 226	454.328	664619.456	5378543.781	Foliation	240	0	moderate.	2019-10-05-15-40-36
HUR19- 225	455.386	664612.433	5378529.394	vein	0	0	5 cm wide QzC vein with Py. especially at outer margins. host rock iron formation.	2019-10-05-15-13-24
HUR19- 224	451.541	664600.812	5378503.701	vein	250	0	3 cm to sub cm scale QzC veins over less than one m. Bold with no visable sulfides. possible Turmiline in largest southern vei .	2019-10-05-14-40-26

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 223	454.263	664646.162	5378038.406	vein	258	0	20 cm qzc vein with 5-0%py tr cpy. strongly weathered.Two 3-5 cm sulfide veins withing 1m to the south. north is under a small puddle.	2019-10-05-10-42-48
HUR19- 222	454.531	664644.648	5378043.862	vein	262	0	10-15 cm wide, with crust cutting fracture running Az 330	2019-10-02-18-10-50
HUR19- 221	452.16	664608.241	5378118.657	sheer	250	75	2m wide from edge of puddle	2019-10-02-17-45-04
HUR19- 220	452.16	664608.241	5378118.657	sheer	265	0	6m wide sheer zone	2019-10-02-17-45-04
HUR19- 219	451.941	664602.628	5378137.047	fracture	320	0	2 distinct fractures 2 m apart running Az 320	2019-10-02-17-41-27
HUR19- 218	453.654	664598.012	5378146.679	Foliation	250	0	localized.	2019-10-02-17-36-36
HUR19- 217	433.6	664602.381	5378168.61	sheer	254	0	4m of sheered mafic volcanics. s outhit edge of 15m long puddle.	2019-10-02-17-06-16
HUR19- 216	454.012	664596.212	5378194.712	Foliation	252	0	weak to locally moderate.	2019-10-02-16-56-29
HUR19- 215	453.913	664596.022	5378193.32	fracture	20	0	rare fractures running Az020 weak hemitite alt at surface	2019-10-02-15-21-30
HUR19- 214	450.976	664523.604	5378334.698	fracture	340	0	three sets of fractures two must dominant run AZ 340 and 228 while a weaker set runs about AZ 20. 020 fractures show displacement when they cross 228 and less so when they cross 340. veining seems to be associated with 228 structure.	2019-10-02-13-31-16
HUR19- 213	450.632	664511.364	5378376.006	sheer	240	75	same as foliation. Adjust foliation in mapping tab	2019-10-02-12-49-50
HUR19- 212	452.713	664506.37	5378393.889	Foliation vein sheer	50	75	Sheeri g with common 2-4cm wide sulfide bearing Qzc veins	2019-10-02-12-15-40
HUR19- 211	452.051	664503.38	5378403.802	fracture sheer	100	75	Sheered material runs Az100 dip 75. converging fractures run az55 dip 60  appear to converge and runn along the az 100 trend. they do not appear to cross each other but rather theaz 55 fractures are a splay from the az 100 sheeting.	2019-10-02-11-34-24
HUR19- 210	452.215	664503.305	5378411.784	vein	0	0	second 2-3cm vuggy qz vei .	2019-10-01-16-11-01
HUR19- 209	453.009	664502.701	5378413.496	vein	300	0	2-3cm wide vuggy qz vein. offset by sheer to the north.	2019-10-01-16-08-05
HUR19- 208	451.945	664501.164	5378413.891	sheer	90	0	narrow east west running. post dates veins to the south.	2019-10-01-16-02-20

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 207	451.073	664501.843	5378420.102	vein	65	0	3 generations of veins. youngest at 65 deg are the whitest and an older grayer vein running roughly 18 deg or almost parallel to trench until it bends to the east, and a 3rd set of mm scale veinlets running roughly 140 deg see photos	2019-10-01-15-40-48
HUR19- 206	449.725	664509.175	5378437.837	sheer	240	0	same as to the south but tighter over roughly 30 cm.	2019-10-01-15-14-21
HUR19- 205	452.951	664505.288	5378435.995	sheer	255	65	Moderate sheering, cross cuts vuggy veins. See photo for offset.	2019-10-01-14-47-20
HUR19- 204	450.308	664506.798	5378432.762	vein	280	55	Four 1cm scales vuggy qz veins disappear into cross cutting sheer to the north.	2019-10-01-14-39-37
HUR19- 203	450.191	664510.984	5378443.082	vein	255	40	3 vuggy cm scale qz veins running parallel to each other, spaced roughly 30 cm apart. 3-5% Py amd Ccp in veins.	2019-10-01-14-15-47
HUR19- 202	454.738	663919.327	5376928.404	vein	220	0	QZc vein striking 220, subcm to 2cm wide, offset by fractures striking 270°	2019-09-29-16-09-42
HUR19- 201	454.491	663912.966	5376931.789	vein	230	0	QZ vein subcm to 8cm across, follows sheer, sulphides absent.	2019-09-29-16-02-45
HUR19- 200	454.2	663912.389	5376931.136	sheer	230	0	End of sheer, striking 230°	2019-09-29-16-01-28
HUR19- 199	454.777	663911.084	5376932.364	sheer	230	70	Start of sheer zone striking 230°	2019-09-29-15-58-31
HUR19- 198	453.3	663907.108	5376933.866	vein	220	0	QZc vein, 2-4cm wide, dark material within possibly tourmaline,	2019-09-29-15-45-45
HUR19- 197	454.325	663898.658	5376938.798	vein	120	0	QZc veins sub cm, striking 120°, 5% weathered rust red material ( hematite, or ancharite)	2019-09-29-15-31-49
HUR19- 196	452.331	663895.792	5376940.178	vein  fracture	220	0	QZ vein 2-3cm wide , offset by fracture striking 260	2019-09-29-15-22-15
HUR19- 195	450.037	663891.908	5376940.951	vein	220	0	QZ vein 1cm wide to sub cm, localized sulphides 2%	2019-09-29-15-19-56
HUR19- 194	454.083	663885.842	5376942.897	vein	220	80	QZc vein, 1cm to sub cm in size	2019-09-29-14-28-53
HUR19- 193	447.867	664401.01	5376826.912	fracture	310	0	fracture going across outcrop	2019-09-26-11-04-59
HUR19- 192	447.23	664397.111	5376835.646	sheer	250	60	wnd of sheer	2019-09-26-10-40-54
HUR19- 191	447.23	664397.111	5376835.646	sheer	250	60	start of weak sheered zone, lapilli still present but more flattened, moderate hematite alteration.	2019-09-26-10-40-54
HUR19- 190	447.23	664397.111	5376835.646	vein	230	0	QZc veins, 2 different sets one striking 230° the other strikes 0°, Sulphides present in both veins 5%	2019-09-26-10-40-54
HUR19- 189	446.267	664396.706	5376838.844	vein	250	0	Sub cm veins of very fine grain sulphides, within Intermediate to mafic lapilli tuff, strong hematite alteration,	2019-09-26-10-30-38
HUR19- 188	450.95	664392.747	5376854.138	fracture	300	0	large fracture striking 300°	2019-09-26-10-11-51
HUR19- 187	447.304	664383.133	5376877.895	sheer	260	0	start of moderately sheered zone here to waters edge to south.	2019-09-25-15-07-20

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 186	448.358	664373.851	5376887.832	sheer	240	75	Sheered Mafic Volcanics, localized sulphides 1-3%	2019-09-25-14-43-35
HUR19- 185	451.578	664363.23	5376903.421	sheer	270	0	End of sheer zone.	2019-09-25-14-38-26
HUR19- 184	448.188	664362.23	5376906.754	vein	60	0	Sub cm to 2cm wide QZ veins, As Veins cross sheer sulphides are present 5-7 %	2019-09-25-14-34-00
HUR19- 183	446.785	664361.539	5376907.962	sheer	270	0	Start of Sheer zone, 5m wide	2019-09-25-14-31-04
HUR19- 182	447.707	664364.719	5376923.113	sheer	240	75	Start of sheer, water to the south. Disseminated Sulphides 5%	2019-09-25-14-27-10
HUR19- 181	449.415	664366.257	5376924.968	sheer	240	0	End of 1m wide sheer.	2019-09-25-14-26-17
HUR19- 180	447.053	664366.707	5376926.284	sheer	240	0	start of 1m wide sheer, disseminated veins of Sulphides 5%, fine grain Sulphides associated with sub cm wide QZ veins.	2019-09-25-14-23-25
HUR19- 179	444.678	664369.253	5376949.677	sheer	230	0	well sheered 30cm wide area, weathered out sulphides 5%	2019-09-25-13-06-19
HUR19- 178	451.974	664370.34	5376953.37	sheer	250	0	end of 3m wide sheer	2019-09-25-13-03-42
HUR19- 177	449.813	664370.738	5376959.376	sheer	250	0	Start of 3m wide sheer,	2019-09-25-13-01-24
HUR19- 176	455.032	664378.95	5376982.572	vein	230	0	QZ veins, 1-3cm wide	2019-09-25-12-34-43
HUR19- 175	454.403	664397.566	5376995.385	fracture	10	0	Fractures cross cutting both rock units, has offset them by 10-15cm	2019-09-25-12-26-34
HUR19- 174	451.857	664397.298	5376997.719	vein	250	0	QZ vein striking 250Å°, subcm to 5cm across,	2019-09-25-12-23-42
HUR19- 173	453.066	664430.487	5377024.883	fracture	300	0	fractures striking 300Å°	2019-09-24-16-20-37
HUR19- 172	454.948	664432.398	5377027.404	sheer	240	0	small scale sheers under .5m, rare QZc veins,	2019-09-24-16-16-05
HUR19- 171	453.477	664478.617	5377120.105	sheer	230	0	start of 2m wide sheer, QZc veins present, sulphides localized to QZc vein 3%	2019-09-24-16-01-25
HUR19- 170	456.999	664480.695	5377122.056	vein	240	0	large QZc Nodules, no sulphides present	2019-09-24-15-59-11
HUR19- 169	454.696	664481.696	5377125.625	sheer	250	0	.5m wide sheer, no sulphides present	2019-09-24-15-56-00
HUR19- 168	454.944	664489.619	5377143.538	fracture	330	0	Fractures striking 330Å° one fracture cross cutting at 250Å°	2019-09-24-15-49-52
HUR19- 167	453.04	664491.286	5377147.421	sheer	250	0	.5m wide sheer, in mafic volcanics. no sulphides present	2019-09-24-15-48-07
HUR19- 166	450.678	664495.81	5377160.708	sheer	250	75	.5m wide sheer striking 250Å° sulphides 2%	2019-09-24-15-43-00
HUR19- 165	452.563	664490.591	5377193.898	fracture	330	0	fractures older fracture striking 330Å° younger fracture cross cutting and offsetting older one striking 260Å°	2019-09-24-15-35-33
HUR19- 164	451.8	664475.588	5377195.743	vein	270	0	dessiminated QZc veins up to 3cm wide, maybe Nodules?	2019-09-24-15-29-44
HUR19- 163	452.471	664467.475	5377198.478	fracture	330	0	fractures striking 330Å°	2019-09-24-15-24-28
HUR19- 162	454.936	664462.404	5377204.194	sheer	250	0	end of sheer that strikes 250Å°, sulphides localized areas 2%	2019-09-24-15-18-19
HUR19- 161	451.757	664460.668	5377201.936	sheer	250	0	sheer striking 250Å°, hematite alteration is moderately present.	2019-09-24-15-10-34
HUR19- 160	453.702	664443.202	5377209.4	vein	230	0	QZc vein 1-3cm wide no visible sulphides, offset by fracture striking 270Å°	2019-09-24-15-03-26
HUR19- 159	453.516	664438.498	5377209.313	fracture	260	0	Fractures striking 260Å° second set striking 300Å°	2019-09-24-14-58-43

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 158	453.373	664402.12	5377205.514	sheer	250	0	end of sheer in mafic volcanics	2019-09-24-10-52-13
HUR19- 157	454.882	664401.431	5377207.935	sheer	250	0	start of sheer in mafic Volcanics,	2019-09-24-10-45-30
HUR19- 156	451.812	664396.895	5377213.722	fracture	150	0	Fractures striking at 150°	2019-09-24-10-42-04
HUR19- 155	451.251	664392.862	5377237.387	vein	230	0	QZc vein, 1-5cm in width,	2019-09-24-10-15-12
HUR19- 154	451.251	664392.862	5377237.387	vein	280	0	QZc veins ranging from sub cm up to 5cm across, surrounding mafic volcanics are silicified.	2019-09-24-10-15-12
HUR19- 153	449.482	664391.763	5377240.158	sheer	240	75	Sheered mafic volcanics, abundant chlorite, QZc veins within the sheer ( striking same direction)	2019-09-24-10-09-18
HUR19- 152	450.529	664389.424	5377251.714	vein	260	60	QZc vein 1-3cm wide, sulphides absent.	2019-09-24-10-00-58
HUR19- 151	-1	664398.513	5377280.143	vein	80	80	QZ vein, 1-3cm wide, dark material within possibly tourmaline	2019-09-23-15-53-58
HUR19- 150	453.576	664402.501	5377288.83	vein	350	35	2cm to sub cm QZc veins,	2019-09-23-15-49-05
HUR19- 149	452.939	664410.733	5377295.468	vein	270	0	QZc veins within the sheer striking 270°	2019-09-23-15-43-39
HUR19- 148	452.909	664408.812	5377295.004	fracture	350	0	Fractures cross cutting sheer at 350°	2019-09-23-15-42-03
HUR19- 147	452.865	664407.547	5377292.673	sheer	270	0	end of of 3m wide sheer, well sheered, minor QZc veining, sulphides absent	2019-09-23-15-40-37
HUR19- 146	453.413	664412.221	5377298.05	sheer	270	75	start of 3m wide sheer, well sheered, minor QZc veining, sulphides absent	2019-09-23-15-35-44
HUR19- 145	451.964	664414.534	5377300.652	vein	40	0	2cm wide QZc vein, no visible sulphides,	2019-09-23-15-33-19
HUR19- 144	454.133	664419.573	5377305.485	sheer	250	0	.5m wide sheer striking 250°, no sulphides present	2019-09-23-15-27-53
HUR19- 143	452.28	664421.241	5377308.326	vein	30	70	2cm wide, QZC VEIN, striking 30°, Another QZc vein intersects at 70°	2019-09-23-15-21-08
HUR19- 142	452.996	664428.446	5377316.055	vein	170	0	QZc vein striking 170° rusty brown colour associated with vein probably weathered sulphides, no sulphides observed.	2019-09-23-15-16-43
HUR19- 141	454.632	664431.463	5377324.856	vein	60	70	QZ Vein, striking 60° sub cm to 10cm across. no sulphides present.	2019-09-23-15-06-29
HUR19- 140	453.709	664434.352	5377329.02	sheer	260	70	.5m wide sheer striking 260°, minor QZc veins up to 2cm wide striking 230°, sulphides up to 2%	2019-09-23-14-59-16
HUR19- 139	454.835	664436.711	5377332.181	vein	270	0	2cm wide QZc vein, cross cut and offset by sub cm infilled (Qzc vein unfilled fracture) fracture striking 35°	2019-09-23-14-54-03
HUR19- 138	451.581	664442.889	5377343.948	sheer	260	0	small .5m wide sheer has destroyed all lapilli, sulphides 2%	2019-09-23-14-50-56
HUR19- 137	453.056	664441.751	5377348.389	fracture	330	0	multiple fractures striking 330°	2019-09-23-14-30-45
HUR19- 136	452.788	664440.982	5377353.812	fracture	340	0	fractures intersecting at 340° and 290°	2019-09-23-14-26-34
HUR19- 135	453.527	664441.661	5377355.543	sheer	260	75	Moderate sheering, over 1m, more intense at contact between Qz-feld Porphyry, and mafic volcanics to south.	2019-09-23-14-22-06
HUR19- 134	450.39	665937.239	5376340.833	sheer	260	75	end of sheer	2019-09-19-13-50-59
HUR19- 133	452.299	665939.709	5376347	fracture	300	0	fractures cross cutting sheer at 300°	2019-09-19-13-49-20

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 132	454.298	665940.512	5376352.378	sheer	260	70	Sheer zone starts, striking 260°, sheer has localized areas of strong sheering. Sulphides in strongly sheered areas ranges from 2-5%.	2019-09-19-13-46-02
HUR19- 131	455.189	665946.38	5376357.183	vein	270	0	QZC veins striking 270, 2-10cm across,	2019-09-19-13-40-08
HUR19- 130	457.023	665948.701	5376357.53	sheer	260	75	End of sheer zone, sheer Intensity ranges from strong to moderate.	2019-09-19-13-38-04
HUR19- 129	458.737	665952.508	5376366.427	sheer	260	75	Start of sheer, sheer intensity ranges from strong to moderate.	2019-09-19-13-35-54
HUR19- 128	458.924	665953.335	5376369.63	sheer	260	75	end of sheer water to south	2019-09-19-13-32-06
HUR19- 127	457.866	665955.565	5376373.715	sheer	260	75	3m wide sheer, then wter to south, sheer has localized sulphides up to 5%, sheer intensity ranges from moderate to strong.	2019-09-19-13-28-32
HUR19- 126	457.789	665959.62	5376400.983	fracture	230	0	Fractures cross cutting the sheer zone at 230°	2019-09-19-13-14-56
HUR19- 125	454.959	665961.233	5376390.045	sheer	260	70	end of large sheer, localized stronger sheering within the zone.	2019-09-19-13-11-05
HUR19- 124	457.922	665959.315	5376401.861	sheer	260	70	Start of sheer zone striking 260, in Mafic Volcanics,	2019-09-19-13-07-26
HUR19- 123	456.906	665958.145	5376404.408	Dyke	270	0	fine grain, Red in colour, 1-2% sulphides.	2019-09-19-12-54-57
HUR19- 122	458.348	665958.072	5376407.958	sheer	270	80	End of sheer zone	2019-09-19-12-49-01
HUR19- 121	456.712	665956.417	5376412.738	vein	270	0	large QZC vein, .5m wide, black mineral within possibly Tourmaline, no sulphides present.	2019-09-19-12-21-56
HUR19- 120	455.863	665956.935	5376413.564	sheer	270	80	Strongly sheered Feldspar porrphry, Feldspars almost absent, large QZC vein running through.	2019-09-19-12-17-58
HUR19- 119	455.272	665953.201	5376418.796	vein	260	0	QZC vein striking 260° 4cm wide, black Crystals within (Tourmaline)?	2019-09-19-12-15-45
HUR19- 118	455.726	665953.606	5376420.416	sheer	250	75	2m wide sheer, 2% Sulphides, Feldspars still visible.	2019-09-19-12-13-03
HUR19- 117	456.122	665944.168	5376425.524	sheer	260	75	End of Sheer zone, localized rust red zone, with 5% Sulphides.	2019-09-19-12-01-43
HUR19- 116	452.162	665936.84	5376434.777	sheer	260	75	Start of sheer areas of more strongly sheered Intermediate Volcanics,	2019-09-19-11-53-35
HUR19- 115	455.304	665924.568	5376442.504	sheer	260	75	Start of strongly sheered, Feldspar porrphry, 2.5m wide then water to the south, small sub cm veins, 2-3% Sulphides.	2019-09-19-11-43-28
HUR19- 114	457.253	665923.434	5376444.416	vein	90	75	QZC vein, 1-2cm wide, no sulphides observed	2019-09-19-11-37-46
HUR19- 113	456.025	665923.959	5376445.974	fracture	300	0	Many Fractures Striking 300° offsetting small Qzc Veins, 1-2cm in size	2019-09-19-11-31-37
HUR19- 112	457.555	665922.751	5376445.33	sheer	250	70	small .5m wide sheer in Feldspar porrphry. Feldspar mostly absent within sheer	2019-09-19-11-24-05
HUR19- 111	457.415	665917.829	5376457.597	vein	100	20	QZC vein striking 100 and dipping 20, no sulphides observed	2019-09-19-10-54-46
HUR19- 110	457.454	665915.321	5376463.407	Dyke	270	80	1m wide Feldspar porrphry dyke going across the mafic volcanics, also sheered, Feldspars mostly absent.	2019-09-19-10-48-02



Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 109	457.159	665915.339	5376464.726	sheer	270	75	3m Wide shear striking 270°.	2019-09-19-10-40-00
HUR19- 108	455.743	665914.188	5376466.802	fracture	250	0	Fractures striking 250°	2019-09-19-10-37-38
HUR19- 107	453.777	665913.183	5376466.602	sheer	260	75	.5m wide shear, striking 260° 2-3% Sulphides	2019-09-19-10-34-13
HUR19- 106	451.447	665912.599	5376470.218	sheer	260	80	2m wide shear, striking 260°, shear has destroyed Feldspars.	2019-09-19-10-25-32
HUR19- 105	453.961	665903.208	5376483.958	fracture	290	55	Fractures cross cutting shear at 290°	2019-09-19-10-18-02
HUR19- 104	453.617	665902.345	5376484.67	sheer	270	75	Large shear, striking 270°, shear continues from Intermediate volcanics to the north to edge of water south of this point ( water feature in mapping layer). Feldspar in Feld-Por destroyed due to shear.	2019-09-19-10-13-57
HUR19- 103	448.602	665894.458	5376496.759	sheer	270	75	Large shear 17m long, localized areas to southern portion where sheering is stronger.	2019-09-19-10-05-32
HUR19- 102	450.881	665888.829	5376506.615	sheer	260	0	end of Large shear zone	2019-09-18-12-24-58
HUR19- 101	442.747	665891.285	5376523.422	vein	250	0	QZC vein 2-3cm wide sulphides 10%,	2019-09-18-12-20-24
HUR19- 100	443.946	665903.792	5376536.292	vein	270	0	QZC veins 1-10cm wide. striking 270°	2019-09-18-12-15-18
HUR19- 99	442.787	665906.676	5376537.374	sheer	250	75	Sheering not as prevalent in Qz-Feld Porphyry, still visible QzC veins	2019-09-18-12-11-45
HUR19- 98	444.391	665917.495	5376547.56	fracture	0	0	fractures cross cutting large shear zone at 0°	2019-09-18-11-55-51
HUR19- 97	444.381	665918.581	5376549.206	sheer	260	75	Large shear 25m, strongly sheered mafic volcanics 2-3% Sulphides, localized disseminated veins of 10-15%	2019-09-18-11-51-16
HUR19- 96	443.08	665923.309	5376554.21	sheer	260	0	Strongly sheered mafic volcanics, striking 260°.	2019-09-18-11-36-49
HUR19- 95	442.267	665932.438	5376559.701	fracture	0	0	Multiple Fractures cross cutting shear zone at 0°	2019-09-18-11-08-48
HUR19- 94	441.94	665931.933	5376559.004	sheer	250	80	Sheer across width of exposed rock, 2-3% Sulphides, localized veins up to 10%	2019-09-18-11-07-30
HUR19- 93	443.844	665937.944	5376563.198	fracture	0	0	Fracture striking 0°,	2019-09-18-11-03-21
HUR19- 92	444.255	665944.326	5376566.808	sheer	250	75	Sheer striking 250° and dipping 75°, shear has destroyed Feldspars,	2019-09-18-10-50-52
HUR19- 91	444.748	665941.984	5376571.636	sheer	240	75	well sheered Mafic Volcanics, 5% sulphides	2019-09-18-10-43-12
HUR19- 90	442.722	665939.386	5376572.883	sheer	240	75	Sheer zone, minor QZ veining, 1-3% sulphides,	2019-09-18-10-30-37
HUR19- 89	443.244	665933.66	5376578.212	fracture	0	0	Fractures cutting across Feldspar porphyry, striking 0°	2019-09-18-10-25-15
HUR19- 88	445.687	665936.35	5376574.896	sheer	250	80	30cm wide shear Marks the contact between the coarse grain Felds Por and the fine grain Feldspar porphyry. shear has destroyed feldspars, 10% sulphides.	2019-09-18-10-21-22
HUR19- 87	443.186	665931.933	5376580.675	sheer	260	75	Moderately sheered mafic volcanics, well sheered at mafic volcanics contact with Feldspar porphyry to south and North 20cm wide of well sheered material, 2-5% sulphides with 10% sulphides in well sheered area.	2019-09-18-10-08-58

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 86	442.476	665931.872	5376581.153	bedding	260	70	Feldspar porphyry Dyke striking 260°, dipping 70°	2019-09-18-10-05-02
HUR19- 85	441.878	665931.652	5376583.21	sheer	260	75	Sheer zone in Mafic volcanics, 2m wide, wmoderate sheeting, well sheered towards water to north.	2019-09-18-09-51-56
HUR19- 84	442.035	665927.141	5376589.056	sheer	260	75	Large sheer, striking 260, dipping 75°	2019-09-17-12-45-13
HUR19- 83	438.797	665919.383	5376602.692	sheer	260	75	Start of sheer zone striking, 260, mafic volcanics	2019-09-17-12-34-09
HUR19- 82	441.676	665888.009	5376571.499	fracture	320	0	Fracture cross cutting sheer at 320°	2019-09-17-12-13-44
HUR19- 81	441.351	665886.103	5376570.034	sheer	270	75	Strong sheer zone, 3m wide, mafic Volcanics, 2-5% fine grain Sulphides,	2019-09-17-12-10-22
HUR19- 80	439.966	665865.07	5376567.338	sheer	270	0	end of large sheer zone mafic volcanics	2019-09-17-11-57-47
HUR19- 79	440.685	665865.065	5376567.674	sheer	265	70	Sheer zone 3m wide, strongly sheered, striking 265° and dipping 70°	2019-09-17-11-49-43
HUR19- 78	440.075	665867.388	5376588.917	sheer	260	75	Large sheer, 3.5m wide, 2-3% localized sulphides contained in sub cm to cm sized QZ veins.	2019-09-17-11-31-07
HUR19- 77	440.102	665859.839	5376624.972	vein	260	0	QZ vein striking 260° in minor sheer.	2019-09-17-11-18-50
HUR19- 76	440.528	665859.988	5376628.812	sheer	260	75	Moderate Sheering, striking 260°, dipping 75°.	2019-09-17-11-14-08
HUR19- 75	439.317	665860.09	5376629.984	sheer	260	80	2m wide sheer in Mafic Volcanics, localized sulphides 2-5%.	2019-09-17-10-59-33
HUR19- 74	439.03	665859.71	5376642.999	vein	250	0	large .5m wide QZC vein, no sulphides observed.	2019-09-29-12-47-22
HUR19- 73	441.896	665857.085	5376643.101	sheer	90	80	3m wide sheer zone striking 90° and dipping 80°	2019-09-17-10-36-59
HUR19- 72	439.459	665854.386	5376646.161	sheer	80	70	3m wide sheer, moderate to well sheered, 1-2% Sulphides	2019-09-17-10-27-45
HUR19- 71	438.703	665848.576	5376650.433	sheer	250	0	30cm wide sheer at contact between Intermediate to mafic lapilli tuff and mafic volcanics. 2-3% sulphides.	2019-09-17-10-19-40
HUR19- 70	438.429	665846.894	5376652.361	sheer	250	0	.5m wide sheer Intermediate to mafic lapilli tuff, lapilli absent due to sheering.	2019-09-17-10-11-40
HUR19- 69	439.077	665843.373	5376655.283	sheer	250	0	3m wide sheer, rare QZ veining, fine grain Intermediate to mafic lapilli tuff.	2019-09-17-10-05-40
HUR19- 68	438.984	665841.099	5376658.792	sheer	250	0	Sheer zone weakly sheered overall, 20cm section within is strongly sheered, 2% sulphides.	2019-09-17-09-52-06
HUR19- 67	440.098	665840.287	5376659.538	vein sheer	240	0	.5-1m wide sheer zone, QZC veining, Hematite alteration, 1-3% Sulphides.	2019-09-17-09-37-45
HUR19- 66	441.824	665836.414	5376664.897	sheer	260	78	2.5m wide sheer zone, striking 260°, Intermediate lapilli tuff, lapilli absent in sheer.	2019-09-17-09-26-04
HUR19- 65	435.519	665777.548	5376718.182	sheer	80	0	4 weak to moderate sheer zones to north, after the 3m wide shear.	2019-09-16-17-48-14
HUR19- 64	443.644	665773.868	5376728.043	sheer	80	0	moderate Sheer zone 3m wide striking 80°	2019-09-16-17-44-15
HUR19- 63	444.359	665772.215	5376730.242	fracture	90	0	90° striking fractures	2019-09-16-17-37-09
HUR19- 62	-1	665762.417	5376747.487	vein	50	0	Qz vein 2-3cm in width	2019-09-16-17-22-24
HUR19- 61	448.854	665757.787	5376754.831	fracture	90	0	multiple fractures striking 90°	2019-09-16-17-11-05

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 60	448.219	665753.461	5376762.545	sheer	80	0	small scale sheers 5-20cm in width striking 80° feldspars destroyed in shear.	2019-09-16-17-02-33
HUR19- 59	-1	665753.431	5376763.255	fracture	70	0	multiple fractures striking 70°	2019-09-16-16-59-12
HUR19- 58	449.041	665745.867	5376768.672	vein	110	0	large QZC vein 20cm across	2019-09-16-16-36-23
HUR19- 57	449.36	665735.526	5376790.374	sheer	80	0	moderately sheered zone 2.5m in size striking 80°	2019-09-16-16-25-19
HUR19- 56	448.346	665732.672	5376790.902	sheer	80	0	minor sheers up to .5m in size strike 80° lapilli absent in shear.	2019-09-16-16-21-18
HUR19- 55	450.035	665728.114	5376798.288	sheer	80	70	small scale sheering striking 80° and dipping 70° N	2019-09-16-16-06-58
HUR19- 54	449.658	665722.732	5376805.203	fracture	130	0	fractures striking 130°	2019-09-16-16-04-17
HUR19- 53	453.505	665719.731	5376813.886	sheer	60	42	2.5m sheer zone weak to moderately sheered no QZ OR SUL present	2019-09-16-15-58-30
HUR19- 52	445.667	664187.554	5376617.118	sheer	80	75	moderately sheered, 1-2% sulphide, mafic volcanics	2019-09-13-14-35-51
HUR19- 51	447.97	664188.849	5376658.761	vein	70	0	QZC vein at 70° 2-5 cm wide offset by fracture striking 150°.	2019-09-13-14-18-19
HUR19- 50	448.301	664189.607	5376664.798	vein	70	0	QZC vein offset by the 120° fracture. see photo of pt49	2019-09-13-14-11-33
HUR19- 49	446.425	664187.83	5376662.97	vein	80	25	QZC vein cm to sub cm, shallow dipping. offset by vertical QZC vein	2019-09-13-14-03-57
HUR19- 48	446.609	664186.429	5376665.297	fracture	120	0	fracture at 120° crosscut by 20° fracture as evident in offset QZC vein. (see photo)	2019-09-13-13-48-01
HUR19- 47	447.492	664186.252	5376667.562	vein	60	0	QZC vein 2-3 cm striking roughly 60°, epidote? on vein edges.	2019-09-13-13-37-33
HUR19- 46	445.935	664166.298	5376710.228	fracture	60	0	secondary fractures in sheer striking 60°	2019-09-13-13-15-35
HUR19- 45	446.864	664167.182	5376713.115	sheer	86	0	mafic volcanics, sheer strike 86° sheered to the waters edge to the south, no major veining. secondary fractures striking at 60°.	2019-09-13-13-06-00
HUR19- 44	446.486	664163.173	5376731.49	vein	160	0	mm to sub cm qz veins running down the trench. No major sulfides	2019-09-13-12-56-41
HUR19- 43	447.352	664160.41	5376739.242	vein	150	0	set of mm to sub cm scale qz veins. no visible Sulfides. veins run down the trench	2019-09-13-12-36-24
HUR19- 42	447.091	664161.061	5376739.631	vein fracture	120	50	fractures, cross cutting the sheer fabric, locally mineralized sulphide at sheers. common sub cm to cm scale qzc veins contain 5%Py. Fractures are often discontinuous between sheers.	2019-09-13-12-14-42
HUR19- 41	448.103	664159.47	5376739.482	sheer	72	80	1m wide sheer, quartz veining, 2-5% sulphide, secondary sheer to the south splays off of main sheer with the strike of 72°.	2019-09-13-12-02-14
HUR19- 40	443.871	664151.094	5376756.902	vein	40	0	5- sub cm to 5 cm scale qz/qzc veins striking 40 deg. 2- 5% Py associated with the veins.	2019-09-12-16-32-10

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 39	444.874	664151.701	5376753.772	sheer	60	55	2m of strong sheering, 2-5% pyrite, strong hematite alteration.	2019-09-12-16-19-20
HUR19- 38	433.808	665156.412	5375941.394	Foliation	75	0	S bending within the sheer see adjacent to GPS sensor and next to the compass.	2019-09-09-13-36-50
HUR19- 37	442.076	665087.887	5376078.63	ion lineation bedding	74	0	CONTACT Int volc to south QFP To North	2019-09-08-15-58-43
HUR19- 36	435.495	664994.651	5376230.938	sheer	70	80	5m wide mod to strong sheer zone. continues north into swamp past end of trench	2019-09-07-12-35-19
HUR19- 35	437.974	665027.778	5376178.81	sheer	65	70	m wide,strongly sheered.	2019-09-07-12-29-18
HUR19- 34	439.002	665051.194	5376155.375	sheer	82	0	see point 33	2019-09-07-12-25-13
HUR19- 33	437.877	665051.508	5376156.021	sheer	74	0	2 sheer zones over 4m. both -2m wide run az 72-74 deg. 25 cm wide sheer running g at 82 deg between them	2019-09-07-12-22-48
HUR19- 32	442.561	665055.717	5376140.852	sheer	68	80	sheer 2m wide with brecciated fragments in north end. no major sulfide.4	2019-09-07-12-14-27
HUR19- 31	443.275	665076.075	5376105.685	Foliation	78	0		2019-09-07-12-09-28
HUR19- 30	448.337	665086.551	5376085.818	sheer	75	70	20 cm wide light grey with 1%Py loc. moderte surface hemitite.	2019-09-07-12-06-53
HUR19- 29	442.558	665088.01	5376077.262	sheer	82	75	60cm wide dark grey with mm scale qz stringers. and strong sheering over 75 cm.with moderate to strong Hemitite alt, 2-3%fgr Py.	2019-09-07-12-03-05
HUR19- 28	435.595	665088.884	5376072.53	sheer	76	80	contact sheering seds? edge of water.	2019-09-07-11-56-00
HUR19- 27	436.602	665092.734	5376065.353	fracture	75	0	Fractures running same as sheers to the south. rock is not altered compared to material to the south.QFP with clear white felds and Qz.	2019-09-07-11-50-47
HUR19- 26	433.649	665099.191	5376054.301	Foliation fracture	76	75	2.5 m wide represented by 4-5m due to slope of ground. moderate sheeting locally along defoliation. weakhemitie alteration patch. 2%fgr diss and fc Py.	2019-09-07-11-43-33
HUR19- 25	432.433	665103.459	5376044.378	sheer	42	0	30 cm sheer zone on north edge of puddle running 44-45 deg. Strongly sneered with 2-3%diss and mm scale vein associated. and	2019-09-06-10-54-01
HUR19- 24	435.076	665111.103	5376035.172	sheer	105	0	3-5 cm smokey vein. Some hemitite alteration. trace py in vugs. az 105 plunge step but irregular.	2019-09-06-10-39-18
HUR19- 23	431.491	665139.227	5375975.137	sheer	65	70	4m wide 2 stacked sheers with another fabric running at an AZ of 80 deg between them see photo compass on 80 deg structure, hammer on 65 deg structure.	2019-09-06-09-48-58

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 22	431.491	665139.227	5375975.137	sheer	76	65	1.5m of moderate sheering. 1-2% fog disk py. sub cm scale qz veinlet In more sheered material is discontinuous.	2019-09-06-09-48-58
HUR19- 21	431.491	665139.227	5375975.137	sheer	74	80	same s as #20, but slight change in az and on north side of puddle. 75 cm wide from n edge of puddle.	2019-09-06-09-48-58
HUR19- 20	431.335	665139.488	5375974.628	sheer	66	78	2.5m wide sheer. moderate to strong shering. no major qz veining. 1%py locally 2-3% in more strongly sheered sections. Darker matrix associated with stronger shearing. visable qz and felds locally.	2019-09-06-09-43-28
HUR19- 19	430.755	665150.758	5375953.835	vein	30	0	2-3 cm qz vein with Py Az irregular	2019-09-05-17-37-56
HUR19- 17	428.542	665153.37	5375955.645	sheer	70	80	3 m wide strong to very strongly sneered. Rare qz eyes (blue grey), 5-8%Py in more strongly sheered sections. probably 3-5% overall. There is a distinct 2 cm cross cutting qz vein running at about 30 deg.	2019-09-05-17-34-52
HUR19- 16	-1	665176.159	5375915.81	sheer	75	70	3m wide moderate to strong shering with 3-5%py strong localized hematite near surface. middle is full of debris	2019-09-05-17-13-02
HUR19- 15	-1	665176.159	5375915.81	sheer	75	80	3-4m wide moderate to weak to loc mod sheering, Upton 3%ph locally but 1% overall. Rare sub cm to cm scale qz veinlets with increased py running along folation. locally mod surface hematite.	2019-09-05-17-04-06
HUR19- 14	431.935	665176.309	5375915.892	sheer	74	80	2m wide sheer with 1-2% diss Py.	2019-09-05-16-53-34
HUR19- 13	442.648	664094.854	5376534.215	sheer	84	70	weak shearing for about 3 m to the south. mafic volcanics to end of trench.	2019-08-31-15-50-22
HUR19- 12	442.656	664104.63	5376509.221	sheer	84	75		2019-08-31-15-44-54
HUR19- 11	446.131	664128.237	5376495.875	sheer	84	75	slight curl to the south across the trench	2019-08-31-15-37-28
HUR19- 10	448.765	664135.871	5376429.733	fracture	74	80	mod to strong hematite,	2019-08-31-15-09-58
HUR19- 9	448.132	664125.861	5376401.97	sheer	256	75	dipping slightly to.the north.	2019-08-31-14-58-32
HUR19- 8	450.268	664120.499	5376371.267	sheer	65	75	well defined60-70 cm wide. plunge variable.weak to mod hematite staining.	2019-08-31-14-43-21
HUR19- 7	448.802	664130.232	5376354.962	vein	28	0	older cm scale irregular veins, cross cuts stratigraphy	2019-08-31-14-34-28
HUR19- 6	449.812	664141.603	5376339.316	sheer	0	0	photo for 2 other points	2019-08-31-14-26-58
HUR19- 5	448.955	664141.676	5376340.431	fault	105	0	3 cm wide and cross cutting sheer with more hematite and carbonate than rest of the sheer.	2019-08-31-14-23-42

Name	Alt	Easting	Northing	Structure Type	Strike/Azimuth	Dip/Plunge	Description	Date
HUR19- 4	449.484	664141.789	5376339.984	sheer	74	80	strong with a younger fault showing displacement running three at 130 deg. weak hematite	2019-08-31-14-17-57
HUR19- 3	453.529	664143.462	5376328.922	sheer	64	55	well developed strongly sneered. variable plunge 45-60. weak hematite.	2019-08-31-14-10-12
HUR19- 2	461.818	664148.258	5376324.954	sheer	62	65	more developed than Sheer to the south. no significant sulfides	2019-08-31-14-07-26
HUR19- 1	454.443	664146.188	5376313.804	sheer	64	75	in coarser lapilli unit. dip is approx.	2019-08-31-14-04-09



**18 Appendix III – Assay Certificates**

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Report No.: A19-14136
Report Date: 31-Oct-19
Date Submitted: 21-Oct-19
Your Reference: KES-HUR

Fladgate Exploration
278 Bay Street
Thunder Bay On P7B 1R8
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

63 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-50-Tbay | QOP AA-Au (Au - Fire Assay AA) | 2019-10-30 19:41:34

REPORT A19-14136

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
763501	< 5
763502	< 5
763503	< 5
763504	< 5
763505	< 5
763506	< 5
763507	31
763508	< 5
763509	< 5
763510	< 5
763511	< 5
763512	< 5
763513	17
763514	18
763515	< 5
763516	< 5
763517	10
763518	< 5
763519	< 5
763520	30
763521	43
763522	8
763523	< 5
763524	< 5
763525	< 5
763526	< 5
763527	< 5
763528	< 5
763529	< 5
763530	< 5
763531	< 5
763532	< 5
763533	< 5
763534	< 5
763535	< 5
763536	< 5
763537	< 5
763538	< 5
763539	< 5
763540	< 5
763541	< 5
763542	< 5
763543	< 5
763544	< 5
763545	10
763546	< 5
763547	< 5
763548	< 5
763549	< 5
763550	< 5
763551	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
763552	6
763553	< 5
763554	6
763555	< 5
763556	6
763557	< 5
763558	< 5
763559	< 5
763560	< 5
763561	< 5
763562	13
763563	11

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	875
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	876
OREAS 220 (Fire Assay) Cert	866
OREAS 238 (Fire Assay) Meas	2970
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3140
OREAS 238 (Fire Assay) Cert	3030
763510 Orig	< 5
763510 Dup	< 5
763520 Orig	32
763520 Dup	28
763530 Orig	< 5
763530 Dup	< 5
763545 Orig	11
763545 Dup	8
763550 Orig	< 5
763550 Split PREP DUP	< 5
763554 Orig	6
763554 Dup	5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A19-14138  
Report Date: 29-Oct-19  
Date Submitted: 21-Oct-19  
Your Reference: KES-HUR

Fladgate Exploration  
1158 Russell ST  
Suite D  
Thunder Bay On P7B5N2  
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

42 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2019-10-29 09:26:02

REPORT A19-14138

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control Coordinator

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1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
763640	< 5
763641	< 5
763642	< 5
763643	< 5
763644	< 5
763645	< 5
763646	< 5
763647	9
763648	7
763649	100
763650	13
763651	9
763652	73
763653	87
763654	10
763655	20
763656	11
763657	11
763658	41
763659	28
763660	6
763661	6
763662	35
763663	9
763664	9
763665	8
763666	11
763667	30
763668	309
763669	12
763670	13
763671	12
763672	10
763673	10
763674	28
763675	46
763676	285
763677	105
763678	26
763679	66
763680	38
763681	19

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	868
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	873
OREAS 220 (Fire Assay) Cert	866
OREAS 238 (Fire Assay) Meas	3140
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3110
OREAS 238 (Fire Assay) Cert	3030
763649 Orig	112
763649 Dup	88
763659 Orig	27
763659 Dup	29
763669 Orig	13
763669 Dup	10
763681 Orig	18
763681 Dup	19
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A19-14139  
 Report Date: 06-Nov-19  
 Date Submitted: 21-Oct-19  
 Your Reference: KES-HUR

Fladgate Exploration  
 278 Bay Street  
 Thunder Bay On P7B 1R8  
 Canada

ATTN: Michael Thompson

## CERTIFICATE OF ANALYSIS

77 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E-Ag	QOP AquaGeo (Aqua Regia ICPOES)	2019-11-05 10:16:55

REPORT      **A19-14139**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Esemé, Ph.D.  
 Quality Control Coordinator

**ACTIVATION LABORATORIES LTD.**  
 41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
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 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: A19-14139  
Report Date: 06-Nov-19  
Date Submitted: 21-Oct-19  
Your Reference: KES-HUR

Fladgate Exploration  
278 Bay Street  
Thunder Bay On P7B 1R8  
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

77 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	GOP AA-Au (Au - Fire Assay AA)	2019-10-29 07:55:53

REPORT A19-14139

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Eseme, Ph.D.  
Quality Control Coordinator

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Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763564	< 5	
763565	< 5	
763567	< 5	
763568	6	
763569	6	
763570	< 5	
763571	5	
763572	94	
763573	< 5	
763574	< 5	
763575	< 5	
763576	< 5	
763577	57	
763578	< 5	
763579	< 5	
763580	12	
763581	8	
763582	38	
763583	24	
763584	87	
763585	138	
763586	22	
763587	25	
763588	60	
763589	6	
763590	6	
763591	30	
763592	5	
763593	< 5	
763594	7	
763595	< 5	
763596	< 5	
763597	< 5	
763598	< 5	
763599	< 5	
763600	13	
763601	12	
763602	10	
763603	< 5	
763604	< 5	
763605	< 5	
763606	< 5	
763606	< 5	
763607	< 5	
763608	< 5	
763609	< 5	
763610	< 5	
763611	8	
763612	< 5	
763613	< 5	
763614	< 5	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763615	< 5	
763616	8	
763617	< 5	
763618	< 5	
763619	24	
763620	13	
763621	8	
763622	< 5	
763623	< 5	
763624	112	
763625	7	
763626	8	
763627	14	
763628	41	
763629	30	
763630	6	
763631	1010	< 0.2
763632	9	
763633	20	
763634	92	
763635	287	
763636	48	
763637	82	
763638	6	
763639	84	
763566	< 5	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
GXR-6 Meas		0.3
GXR-6 Cert		1.30
OREAS 922 (AQUA REGIA) Meas		1.0
OREAS 922 (AQUA REGIA) Cert		0.851
OREAS 923 (AQUA REGIA) Meas		1.8
OREAS 923 (AQUA REGIA) Cert		1.62
Oreas 96 (Aqua Regia) Meas		11.6
Oreas 96 (Aqua Regia) Cert		11.50
OREAS 220 (Fire Assay) Meas	878	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	863	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	879	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	842	
OREAS 220 (Fire Assay) Cert	866	
Oreas 621 (Aqua Regia) Meas		67.6
Oreas 621 (Aqua Regia) Cert		68.0
OREAS 238 (Fire Assay) Meas	3100	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3090	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3090	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	2990	
OREAS 238 (Fire Assay) Cert	3030	
763574 Orig	< 5	
763574 Dup	< 5	
763584 Orig	88	
763584 Dup	85	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763594 Orig	7	
763594 Dup	6	
763608 Orig	< 5	
763608 Dup	< 5	
763613 Orig	< 5	
763613 Split PREP DUP	< 5	
763617 Orig	< 5	
763617 Dup	< 5	
763627 Orig	17	
763627 Dup	10	
763566 Orig	< 5	
763566 Dup	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	< 0.2



Report No.: A19-14251
Report Date: 06-Nov-19
Date Submitted: 22-Oct-19
Your Reference: KES-HUR

Fladgate Exploration
278 Bay Street
Thunder Bay On P7B 1R8
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

39 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-50-Tbay | QOP AA-Au (Au - Fire Assay AA) | 2019-10-29 10:45:27

REPORT A19-14251

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763977	63	
763978	< 5	
763979	51	
763980	30	
763981	100	
763982	793	12.3
763983	51	
763984	< 5	
763985	10	
763986	36	
763987	< 5	
763988	< 5	
763989	< 5	
763990	< 5	
763991	15	
763992	< 5	
763993	< 5	
763994	< 5	
763995	6	
763996	< 5	
763997	< 5	
763998	5	
763999	6	
959001	51	
959002	15	
959003	< 5	
959004	5	
959005	9	
959006	11	
959007	9	
959008	7	
959009	6	
959010	11	
959011	9	
959012	< 5	
959013	8	
959014	8	
959015	7	
764000	54	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
GXR-6 Meas		0.3
GXR-6 Cert		1.30
OREAS 922 (AQUA REGIA) Meas		1.0
OREAS 922 (AQUA REGIA) Cert		0.851
OREAS 923 (AQUA REGIA) Meas		1.8
OREAS 923 (AQUA REGIA) Cert		1.62
Oreas 96 (Aqua Regia) Meas		11.6
Oreas 96 (Aqua Regia) Cert		11.50
OREAS 220 (Fire Assay) Meas	859	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	879	
OREAS 220 (Fire Assay) Cert	866	
Oreas 621 (Aqua Regia) Meas		67.6
Oreas 621 (Aqua Regia) Cert		68.0
OREAS 238 (Fire Assay) Meas	3090	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3080	
OREAS 238 (Fire Assay) Cert	3030	
763986 Orig	32	
763986 Dup	41	
763996 Orig	< 5	
763996 Dup	< 5	
959007 Orig	9	
959007 Dup	9	
764000 Orig	53	
764000 Dup	55	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.2



Report No.: A19-14253

Report Date: 04-Nov-19

Date Submitted: 22-Oct-19

Your Reference: KES-HUR

Fladgate Exploration  
278 Bay Street  
Thunder Bay On P7B 1R8  
Canada

ATTN: Michael Thompson

### CERTIFICATE OF ANALYSIS

14 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2019-11-04 07:33:08

REPORT **A19-14253**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control Coordinator

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
959016	< 5
959017	< 5
959018	< 5
959019	< 5
959020	< 5
959021	12
959022	7
959023	< 5
959024	< 5
959025	< 5
959026	18
959027	< 5
959028	< 5
959029	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	877
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	869
OREAS 220 (Fire Assay) Cert	866
OREAS 238 (Fire Assay) Meas	2990
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	2970
OREAS 238 (Fire Assay) Cert	3030
959025 Orig	< 5
959025 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A19-14254
Report Date: 04-Nov-19
Date Submitted: 22-Oct-19
Your Reference: KES-HUR

Fladgate Exploration
278 Bay Street
Thunder Bay On P7B 1R8
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

44 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-50-Tbay | QOP AA-Au (Au - Fire Assay AA) | 2019-11-04 07:33:08

REPORT A19-14254

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
959030	< 5
959031	< 5
959032	6
959033	< 5
959034	< 5
959035	16
959036	< 5
959037	< 5
959038	< 5
959039	< 5
959040	< 5
959041	< 5
959042	< 5
959043	< 5
959044	< 5
959045	< 5
959046	< 5
959047	< 5
959048	< 5
959049	< 5
959050	< 5
959051	< 5
959052	< 5
959053	< 5
959054	11
959055	13
959056	26
959057	11
959058	28
959059	< 5
959060	10
959061	< 5
959062	< 5
959063	< 5
959064	< 5
959065	< 5
959066	< 5
959067	< 5
959068	< 5
959069	< 5
959070	< 5
959071	< 5
959072	< 5
959073	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	877
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	869
OREAS 220 (Fire Assay) Cert	866
OREAS 238 (Fire Assay) Meas	2990
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	2970
OREAS 238 (Fire Assay) Cert	3030
959035 Orig	18
959035 Dup	13
959045 Orig	< 5
959045 Dup	< 5
959060 Orig	9
959060 Dup	10
959070 Orig	< 5
959070 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A19-14258
Report Date: 31-Oct-19
Date Submitted: 22-Oct-19
Your Reference: KES-HUR

Fladgate Exploration
278 Bay Street
Thunder Bay On P7B 1R8
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

54 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-50-Tbay | QOP AA-Au (Au - Fire Assay AA) | 2019-10-30 19:41:34

REPORT A19-14258

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
959126	8
959127	< 5
959128	280
959129	122
959130	105
959131	< 5
959132	< 5
959133	< 5
959134	< 5
959135	< 5
959136	< 5
959137	< 5
959138	< 5
959139	< 5
959140	36
959141	16
959142	7
959143	11
959144	< 5
959145	< 5
959146	9
959147	< 5
959148	< 5
959149	< 5
959150	< 5
959151	< 5
959152	13
959153	< 5
959154	< 5
959155	< 5
959156	< 5
959157	< 5
959158	< 5
959159	< 5
959160	< 5
959161	< 5
959162	< 5
959163	< 5
959164	< 5
959165	< 5
959166	< 5
959167	< 5
959168	< 5
959169	6
959170	6
959171	5
959172	9
959173	163
959174	34
959175	5
959176	13

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
959177	70
959178	14
959179	22



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	904
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	873
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	878
OREAS 220 (Fire Assay) Cert	866
OREAS 256 (Fire Assay) Meas	> 5000
OREAS 256 (Fire Assay) Cert	7660
OREAS 238 (Fire Assay) Meas	3130
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3130
OREAS 238 (Fire Assay) Cert	3030
959135 Orig	< 5
959135 Dup	< 5
959145 Orig	< 5
959145 Dup	< 5
959153 Orig	< 5
959153 Dup	< 5
959155 Orig	< 5
959155 Dup	< 5
959170 Orig	5
959170 Dup	6
959175 Orig	5
959175 Split PREP DUP	7
959179 Orig	20
959179 Dup	23
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A19-14259  
 Report Date: 06-Nov-19  
 Date Submitted: 22-Oct-19  
 Your Reference: KES-HUR

Fladgate Exploration  
 278 Bay Street  
 Thunder Bay On P7B 1R8  
 Canada

ATTN: Michael Thompson

## CERTIFICATE OF ANALYSIS

22 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2019-10-30 19:41:34
1E-Ag Tbay	QOP AquaGeo (Aqua Regia ICPOES)	2019-11-05 10:16:55

REPORT      **A19-14259**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
 Quality Control Coordinator

**ACTIVATION LABORATORIES LTD.**  
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
959180	676	1.7
959181	32	
959182	86	
959183	24	
959184	26	
959185	17	
959186	22	
959187	< 5	
959188	< 5	
959189	< 5	
959190	< 5	
959191	< 5	
959192	< 5	
959193	24	
959194	51	
959195	7	
959196	91	
959197	17	
959198	714	0.3
959199	45	
959200	57	
959201	17	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
GXR-6 Meas		0.3
GXR-6 Cert		1.30
OREAS 922 (AQUA REGIA) Meas		1.0
OREAS 922 (AQUA REGIA) Cert		0.851
OREAS 923 (AQUA REGIA) Meas		1.8
OREAS 923 (AQUA REGIA) Cert		1.62
Oreas 96 (Aqua Regia) Meas		11.6
Oreas 96 (Aqua Regia) Cert		11.50
OREAS 220 (Fire Assay) Meas	886	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	883	
OREAS 220 (Fire Assay) Cert	866	
Oreas 621 (Aqua Regia) Meas		67.6
Oreas 621 (Aqua Regia) Cert		68.0
OREAS 238 (Fire Assay) Meas	3180	
OREAS 238 (Fire Assay) Cert	3030	
959189 Orig	< 5	
959189 Dup	< 5	
959199 Orig	45	
959199 Dup	45	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.2



Report No.: A19-14260
Report Date: 18-Nov-19
Date Submitted: 22-Oct-19
Your Reference: KES-HUR

Fladgate Exploration
278 Bay Street
Thunder Bay On P7B 1R8
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

218 Rock samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Test name, and Testing Date. Rows include 1A2-50-Tbay, 1E-Ag Tbay, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

REPORT A19-14260

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763682	< 5	
763683	10	
763684	< 5	
763685	11	
763686	< 5	
763687	5	
763688	5	
763689	7	
763690	< 5	
763691	< 5	
763692	28	
763693	8	
763694	9	
763695	< 5	
763696	< 5	
763697	< 5	
763698	< 5	
763699	< 5	
763700	6	
763701	22	
763702	21	
763703	102	
763704	17	
763705	9	
763706	5	
763707	< 5	
763708	20	
763709	255	
763710	8	
763711	14	
763712	14	
763713	6	
763714	< 5	
763715	9	
763716	< 5	
763717	7	
763718	12	
763719	< 5	
763720	14	
763721	12	
763722	26	
763723	42	
763724	39	
763725	46	
763726	14	
763727	73	
763728	42	
763729	9	
763730	45	
763731	< 5	
763732	< 5	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763733	5	
763734	14	
763735	20	
763736	< 5	
763737	21	
763738	8	
763739	129	
763740	16	
763741	64	
763742	102	
763743	14	
763744	< 5	
763745	28	
763746	8	
763747	33	
763748	10	
763749	22	
763750	62	
763751	19	
763752	75	
763753	30	
763754	5	
763755	44	
763756	8	
763757	5	
763758	51	
763759	8	
763760	8	
763761	58	
763762	12	
763763	24	
763764	33	
763765	73	
763766	30	
763767	111	
763768	56	
763769	60	
763770	3610	2.3
763771	37	
763772	40	
763773	66	
763774	70	
763775	65	
763776	99	
763777	227	
763778	413	
763779	482	
763780	463	
763781	211	
763782	123	
763783	165	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763784	514	1.9
763785	114	
763786	166	
763787	27	
763788	45	
763789	< 5	
763790	9	
763791	65	
763792	65	
763793	8	
763794	6	
763795	277	
763796	60	
763797	40	
763798	91	
763799	75	
763800	664	1.8
763801	173	
763802	31	
763803	24	
763804	35	
763805	49	
763806	28	
763807	13	
763808	18	
763809	6	
763810	< 5	
763811	7	
763812	16	
763813	68	
763814	138	
763815	25	
763816	44	
763817	33	
763818	40	
763819	20	
763820	5	
763821	26	
763822	45	
763823	13	
763824	34	
763825	14	
763826	8	
763827	30	
763828	26	
763829	38	
763830	14	
763831	15	
763832	32	
763833	< 5	
763834	73	



Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763835	19	
763836	25	
763837	9	
763838	57	
763839	32	
763840	5	
763841	73	
763842	8	
763843	58	
763844	5	
763845	8	
763846	28	
763847	48	
763848	32	
763849	48	
763850	54	
763851	100	
763852	119	
763853	50	
763854	54	
763855	51	
763856	40	
763857	42	
763858	48	
763859	127	
763860	121	
763861	76	
763862	37	
763863	60	
763864	47	
763865	41	
763866	52	
763867	50	
763868	32	
763869	45	
763870	34	
763871	212	
763872	55	
763873	39	
763874	22	
763875	32	
763876	28	
763877	44	
763878	275	
763879	46	
763880	60	
763881	110	
763882	8	
763883	40	
763884	5	
763885	299	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763886	< 5	
763887	29	
763888	128	
763889	16	
763890	29	
763891	12	
763892	8	
763893	< 5	
763894	< 5	
763895	< 5	
763896	12	
763897	14	
763898	10	
763899	17	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
GXR-6 Meas		0.3
GXR-6 Cert		1.30
OREAS 922 (AQUA REGIA) Meas		0.9
OREAS 922 (AQUA REGIA) Cert		0.851
OREAS 923 (AQUA REGIA) Meas		1.6
OREAS 923 (AQUA REGIA) Cert		1.62
Oreas 96 (Aqua Regia) Meas		10.9
Oreas 96 (Aqua Regia) Cert		11.50
OREAS 220 (Fire Assay) Meas	892	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	866	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	879	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	865	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	866	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	846	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	902	
OREAS 220 (Fire Assay) Cert	866	
Oreas 621 (Aqua Regia) Meas		72.4
Oreas 621 (Aqua Regia) Cert		68.0
OREAS 238 (Fire Assay) Meas	3180	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3180	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3100	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
Assay) Meas		
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3150	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3190	
OREAS 238 (Fire Assay) Cert	3030	
763691 Orig	< 5	
763691 Dup	< 5	
763701 Orig	20	
763701 Dup	23	
763702 Orig	31	
763702 Dup	11	
763726 Orig	13	
763726 Dup	15	
763731 Orig	< 5	
763731 Split PREP DUP	< 5	
763735 Orig	20	
763735 Dup	19	
763745 Orig	28	
763745 Dup	28	
763760 Orig	8	
763760 Dup	8	
763770 Orig	3460	
763770 Dup	3750	
763781 Orig	211	
763781 Split PREP DUP	202	
763782 Orig	126	
763782 Dup	119	
763794 Orig	6	
763794 Dup	6	
763804 Orig	28	
763804 Dup	42	
763814 Orig	137	
763814 Dup	138	
763829 Orig	39	
763829 Dup	37	
763831 Orig	15	
763831 Split PREP DUP	17	
763838 Orig	48	
763838 Dup	66	
763848 Orig	32	
763848 Dup	32	
763863 Orig	54	
763863 Dup	66	
763873 Orig	41	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
763873 Dup	36	
763881 Orig	110	
763881 Split PREP DUP	128	
763882 Orig	8	
763882 Dup	7	
763897 Orig	15	
763897 Dup	12	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.2
Method Blank	< 5	



Report No.: A19-14261

Report Date: 04-Nov-19

Date Submitted: 22-Oct-19

Your Reference: KES-HUR

Fladgate Exploration  
278 Bay Street  
Thunder Bay On P7B 1R8  
Canada

ATTN: Michael Thompson

### CERTIFICATE OF ANALYSIS

77 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2019-11-03 15:31:05

REPORT **A19-14261**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control Coordinator

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
763900	17
763901	16
763902	314
763903	82
763904	8
763905	5
763906	86
763907	330
763908	116
763909	33
763910	140
763911	10
763912	14
763913	< 5
763914	28
763915	< 5
763916	< 5
763917	< 5
763918	< 5
763919	< 5
763920	< 5
763921	< 5
763922	< 5
763923	< 5
763924	11
763925	56
763926	34
763927	31
763928	30
763929	22
763930	8
763931	11
763932	< 5
763933	< 5
763934	< 5
763935	< 5
763936	< 5
763937	< 5
763938	< 5
763939	< 5
763940	5
763941	11
763942	< 5
763943	< 5
763944	< 5
763945	< 5
763946	< 5
763947	< 5
763948	< 5
763949	< 5
763950	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
763951	< 5
763952	< 5
763953	< 5
763954	< 5
763955	< 5
763956	< 5
763957	< 5
763958	< 5
763959	< 5
763960	< 5
763961	< 5
763962	< 5
763963	< 5
763964	< 5
763965	< 5
763966	< 5
763967	< 5
763968	< 5
763969	< 5
763970	< 5
763971	< 5
763972	< 5
763973	6
763974	8
763975	10
763976	7



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	860
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	844
OREAS 220 (Fire Assay) Cert	866
OREAS 220 (Fire Assay) Meas	851
OREAS 220 (Fire Assay) Cert	866
OREAS 238 (Fire Assay) Meas	2990
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	2930
OREAS 238 (Fire Assay) Cert	3030
763909 Orig	32
763909 Dup	34
763919 Orig	< 5
763919 Dup	< 5
763929 Orig	22
763929 Dup	21
763944 Orig	< 5
763944 Dup	< 5
763949 Orig	< 5
763949 Split PREP DUP	< 5
763953 Orig	< 5
763953 Dup	< 5
763963 Orig	< 5
763963 Dup	< 5
763976 Orig	7
763976 Dup	6
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Report No.: A19-14267
Report Date: 18-Nov-19
Date Submitted: 22-Oct-19
Your Reference: KES-HUR

Fladgate Exploration
278 Bay Street
Thunder Bay On P7B 1R8
Canada

ATTN: Michael Thompson

CERTIFICATE OF ANALYSIS

52 Rock samples were submitted for analysis.

Table with 3 columns: Analytical package(s) requested, Testing Date, and details. Rows include 1A2-50-Tbay, 1E-Ag Tbay, QOP AA-Au (Au - Fire Assay AA), and QOP AquaGeo (Aqua Regia ICPOES).

REPORT A19-14267

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
959074	14	
959075	62	
959076	110	
959077	998	9.6
959078	970	1.6
959079	8	
959080	15	
959081	8	
959082	6	
959083	11	
959084	< 5	
959085	< 5	
959086	< 5	
959087	< 5	
959088	< 5	
959089	< 5	
959090	< 5	
959091	< 5	
959092	< 5	
959093	< 5	
959094	< 5	
959095	< 5	
959096	< 5	
959097	< 5	
959098	< 5	
959099	< 5	
959100	< 5	
959101	< 5	
959102	< 5	
959103	< 5	
959104	< 5	
959105	< 5	
959106	< 5	
959107	< 5	
959108	< 5	
959109	< 5	
959110	< 5	
959111	< 5	
959112	< 5	
959113	< 5	
959114	< 5	
959115	< 5	
959116	< 5	
959117	< 5	
959118	< 5	
959119	< 5	
959120	< 5	
959121	< 5	
959122	< 5	
959123	17	
959124	10	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
959125	7	

Analyte Symbol	Au	Ag
Unit Symbol	ppb	ppm
Lower Limit	5	0.2
Method Code	FA-AA	AR-ICP
GXR-6 Meas		0.3
GXR-6 Cert		1.30
OREAS 922 (AQUA REGIA) Meas		0.9
OREAS 922 (AQUA REGIA) Cert		0.851
OREAS 923 (AQUA REGIA) Meas		1.6
OREAS 923 (AQUA REGIA) Cert		1.62
Oreas 96 (Aqua Regia) Meas		10.9
Oreas 96 (Aqua Regia) Cert		11.50
OREAS 220 (Fire Assay) Meas	868	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	887	
OREAS 220 (Fire Assay) Cert	866	
Oreas 621 (Aqua Regia) Meas		72.4
Oreas 621 (Aqua Regia) Cert		68.0
OREAS 238 (Fire Assay) Meas	3030	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 238 (Fire Assay) Meas	3060	
OREAS 238 (Fire Assay) Cert	3030	
959083 Orig	12	
959083 Dup	9	
959093 Orig	< 5	
959093 Dup	< 5	
959103 Orig	< 5	
959103 Dup	< 5	
959118 Orig	< 5	
959118 Dup	< 5	
959123 Orig	17	
959123 Split PREP DUP	18	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.2



# 19 Appendix IV – Expenditures



<b>Subtotal</b>					\$ 13,975.44	\$ 1,607.79	\$12,367.65				
<b>Personal Transportation (getting personnel to and from site)</b>											
<b>Subtotal</b>					#REF!	#REF!	#REF!				
<b>Contractor Mob deMob</b>											
Mobilization			1	2000.00	\$ 2,260.00	\$ 260.00	\$2,000	19INV1639	Fladgate Exploration		
Mobilization	8/24/2019	8/24/2019	5	130.00	\$ 734.50	\$ 84.50	\$650	2055	Belham Ltd		
Demobilization	9/6/2019	9/6/2019	5	130.00	\$ 734.50	\$ 84.50	\$650	2055	Belham Ltd		
<b>Subtotal</b>					\$ 3,729.00	\$ 429.00	\$ 3,300				
<b>Supplies</b>											
Sample supplies			294	2	\$ 664.44	\$ 76.44	\$588	20INV1638	Fladgate Exploration		
<b>Subtotal</b>					\$ 664.44	\$ 76.44	588				
<b>Rental (equipment/trucks)</b>											
Truck light duty rental			3	1500	\$ 5,085.00	\$ 585.00	\$4,500	19INV1639	Fladgate Exploration		
Truck KM's			4208	0.6	\$ 2,853.02	\$ 328.22	\$2,525	19INV1639	Fladgate Exploration		
Field Equipment			6	3500	\$ 23,730.00	\$ 2,730.00	\$21,000	19INV1639	Fladgate Exploration		
ATV Rental			3	1250	\$ 4,237.50	\$ 487.50	\$3,750	19INV1639	Fladgate Exploration		
<b>Subtotal</b>					\$ 113,926.04	\$ 13,106.54	\$31,774.80				
<b>Shipping of Samples</b>											
<b>Subtotal</b>					#REF!	#REF!	#REF!				
<b>Food</b>											
Meals			189	\$25.00	\$ 5,339.25	\$ 614.25	\$4,725	19INV1639	Fladgate Exploration		
<b>Subtotal</b>					\$ 5,339.25	\$ 614.25	4,725				
<b>Accomodation</b>											
Winter camp			189	60	\$ 12,814.20	\$ 1,474.20	\$11,340	19INV1639	Fladgate Exploration		





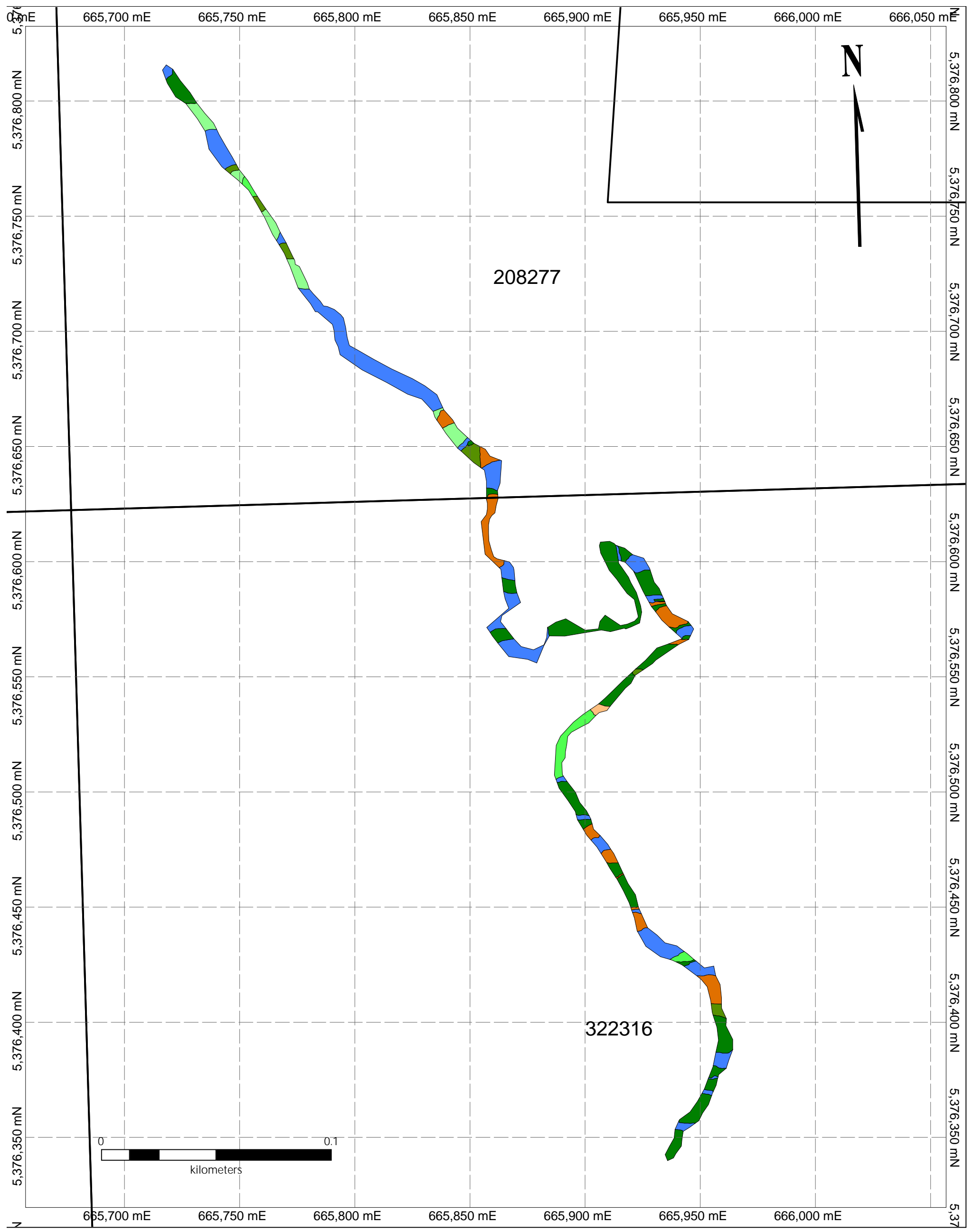


## 20 Appendix V – Invoices












**Withheld for confidentiality**



## 21 Appendix V – Geology Trench Maps



**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		

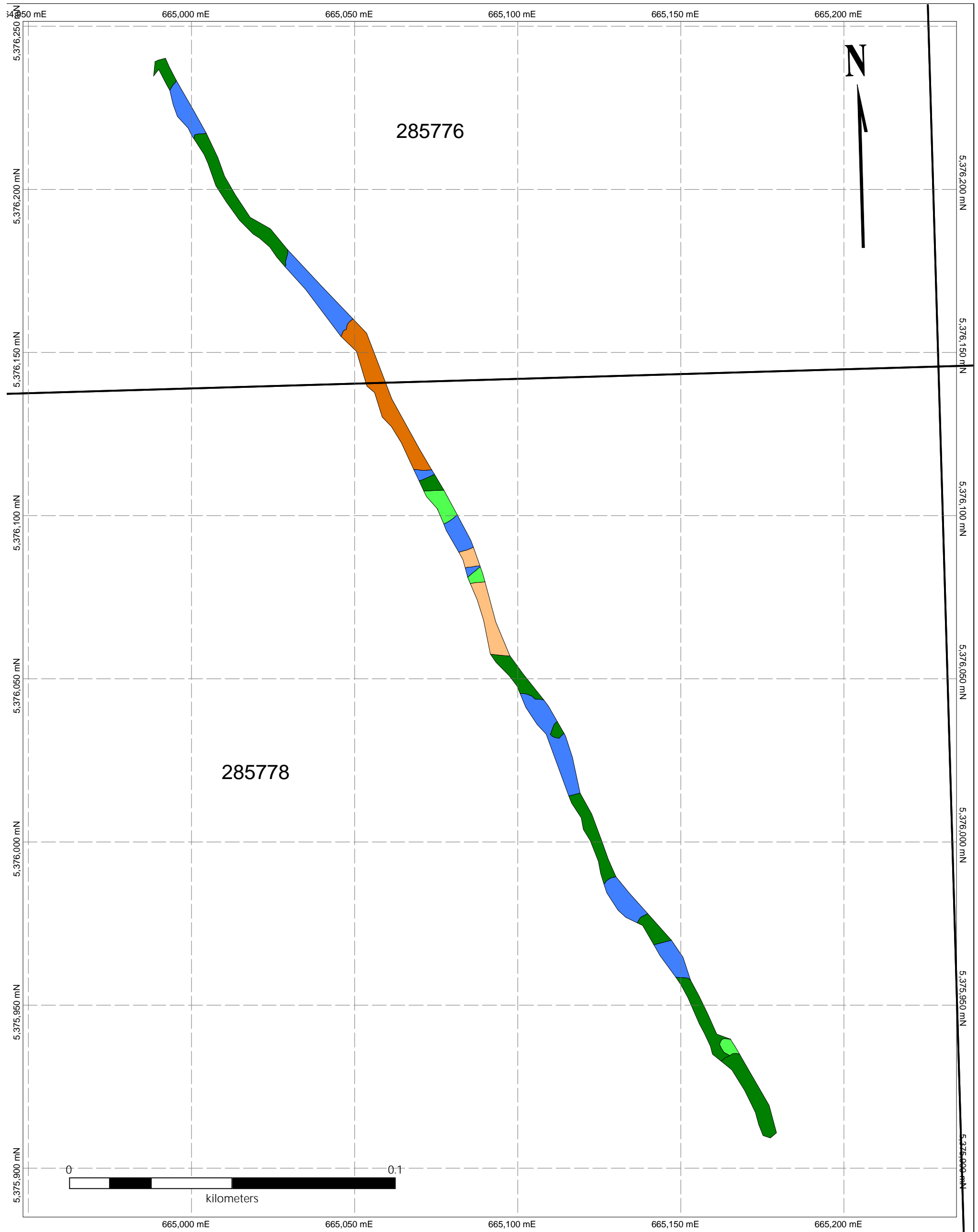
November 25, 2020

Moss Township












UTM Zone 15 (NAD 83)

**Huronian Project  
2019 Trenching  
Trench 1**





**LEGEND**

- |  |                                  |   |                          |
|--|----------------------------------|---|--------------------------|
|  | Intermediate Volcanics           |  | Iron Formation           |
|  | Intermediate Lapilli Tuff        |  | Feldspar Porphyry        |
|  | Mafic Volcanics                  |  | Quartz Feldspar Porphyry |
|  | Intermediate -Mafic Lapilli Tuff |  | Quartz Feldspar Porphyry |
|  | Diabase                          |  | Water                    |
|  | Mafic Derived Sediments          |   |                          |

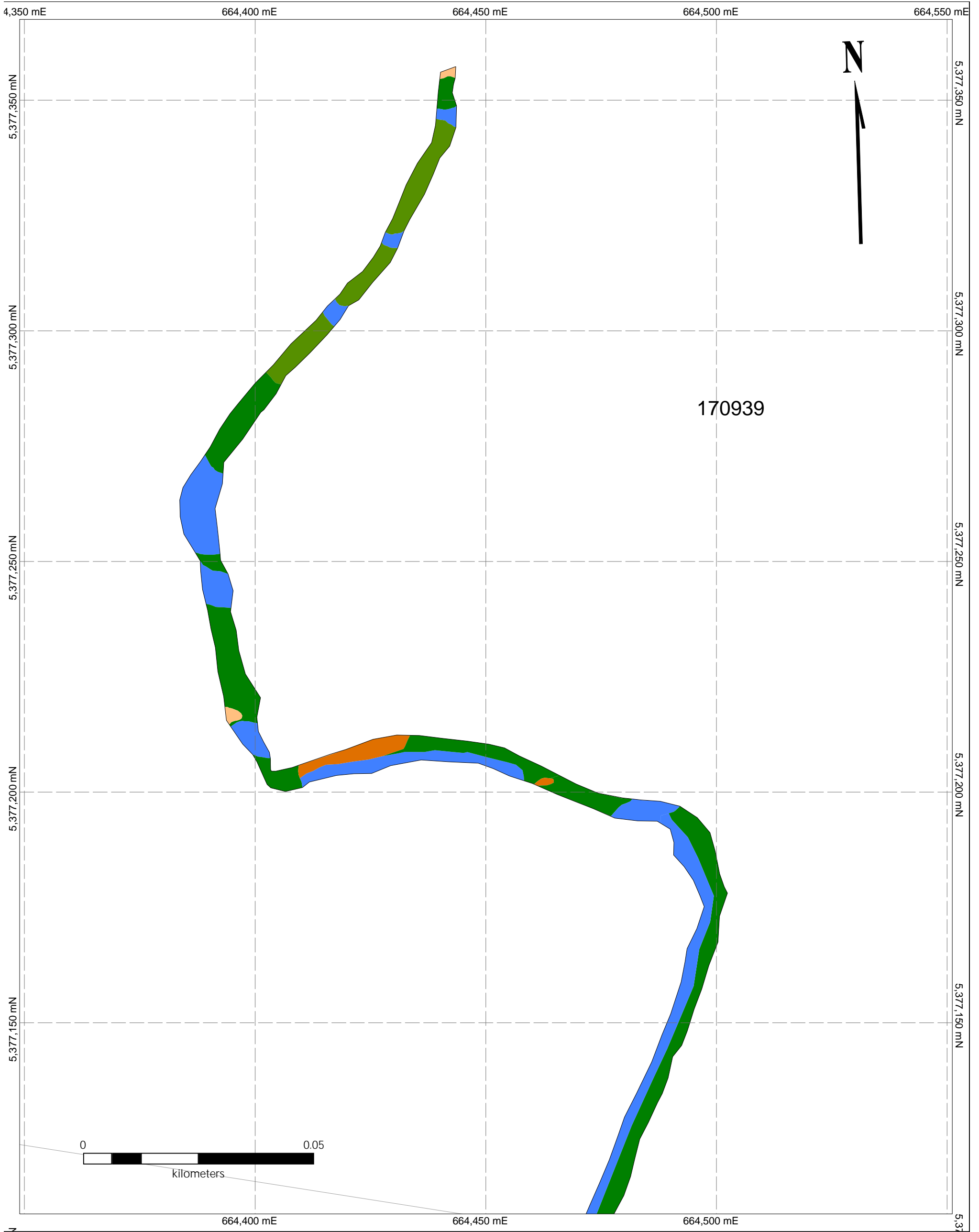
November 25, 2020

Moss Township













UTM Zone 15 (NAD 83)

**Huronian Project**  
**2019 Trenching**  
**Trench 29**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

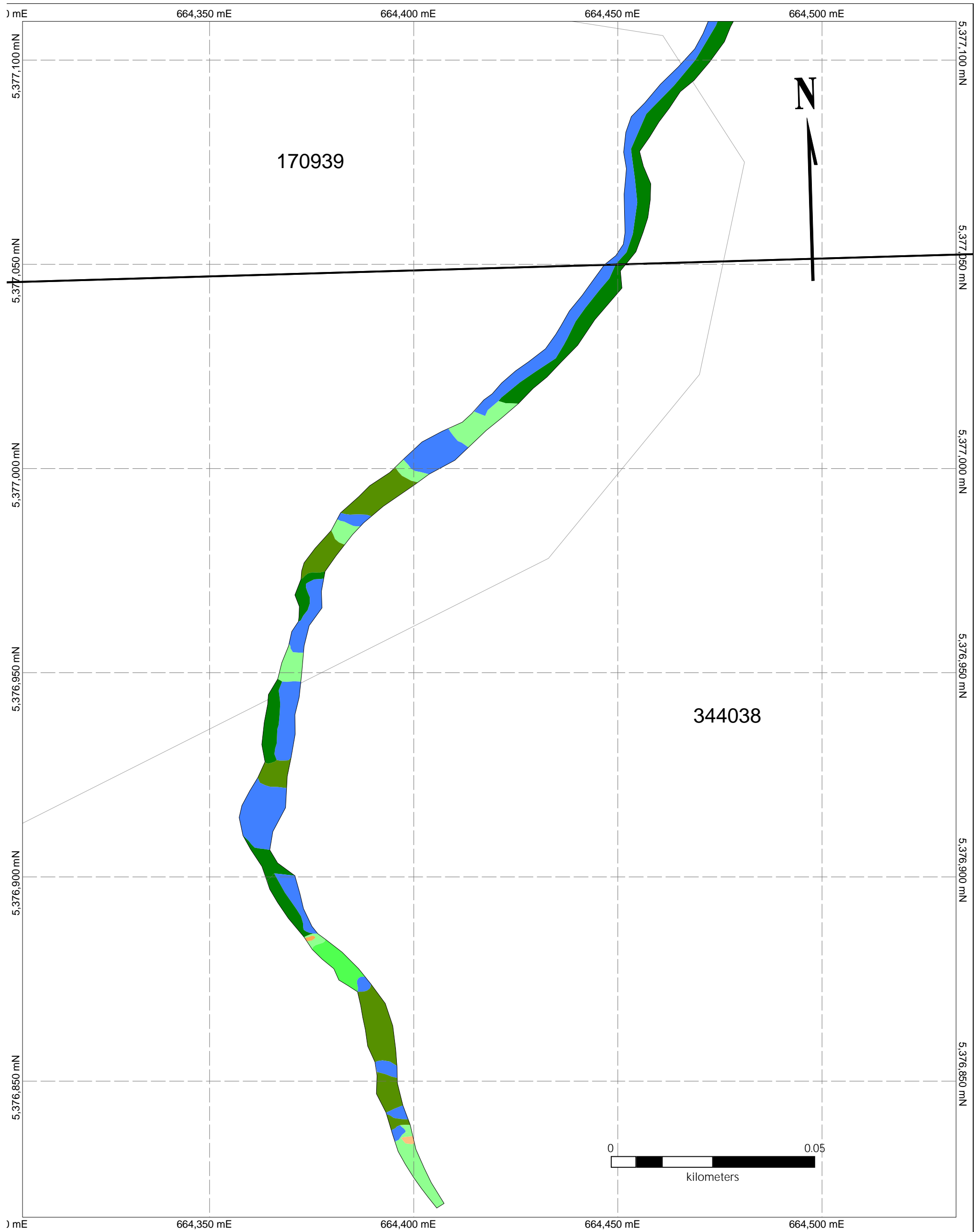
November 25, 2020

Moss  
Township













UTM Zone 15  
(NAD 83)

**Huronian Project**  
**2019 Trenching**  
**Trench 40**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

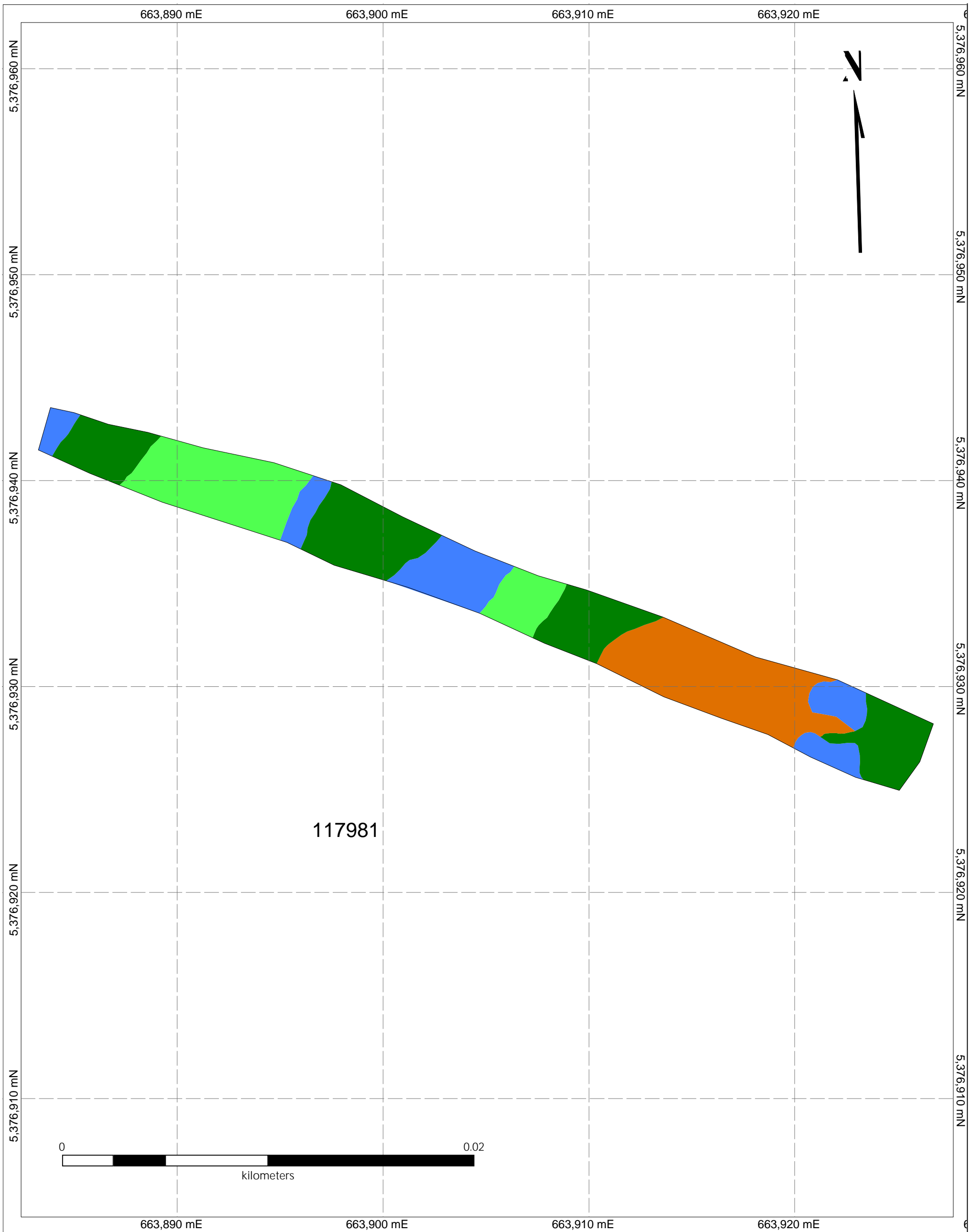
November 25, 2020

Moss  
Township












UTM Zone 15  
(NAD 83)

**Huronian Project**  
**2019 Trenching**  
**Trench 40**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		

November 25, 2020

Moss  
Township

UTM Zone 15  
(NAD 83)

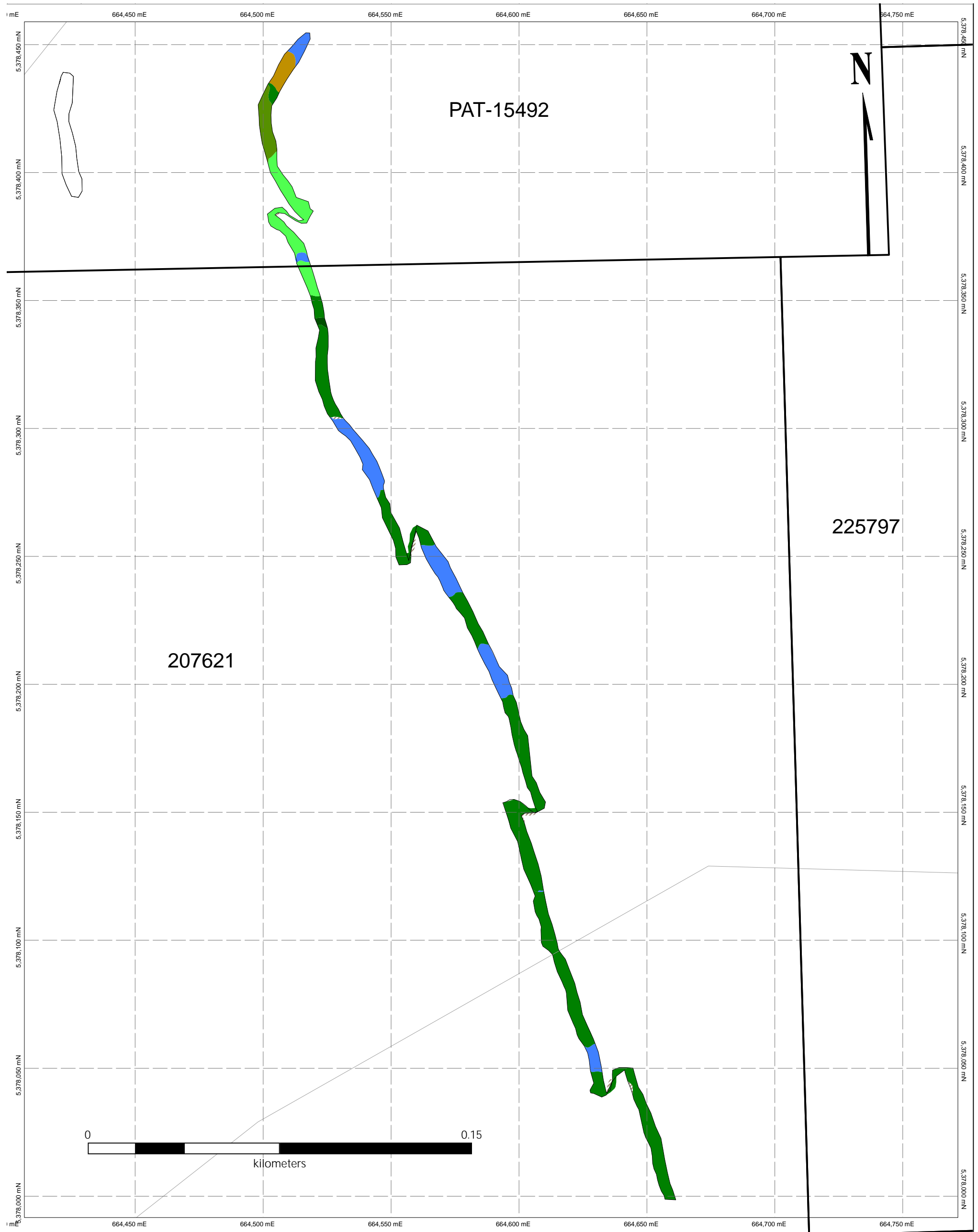
# Huronian Project

## 2019 Trenching












### Trench 41







**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		

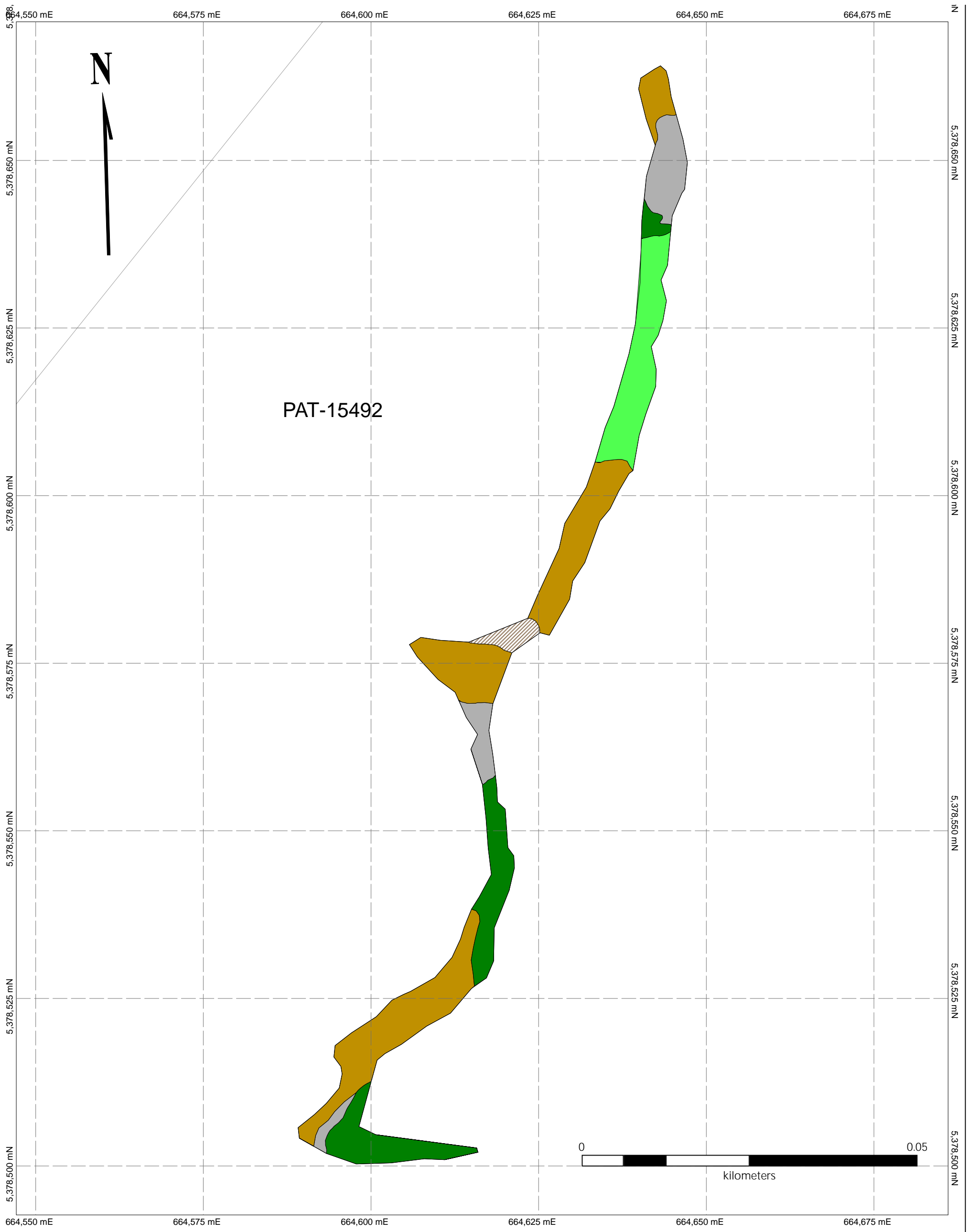
November 25, 2020

Moss  
Township

UTM Zone 15  
(NAD 83)

**Huronian Project**  
**2019 Trenching**  
**Trench 42**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

November 25, 2020

Moss Township

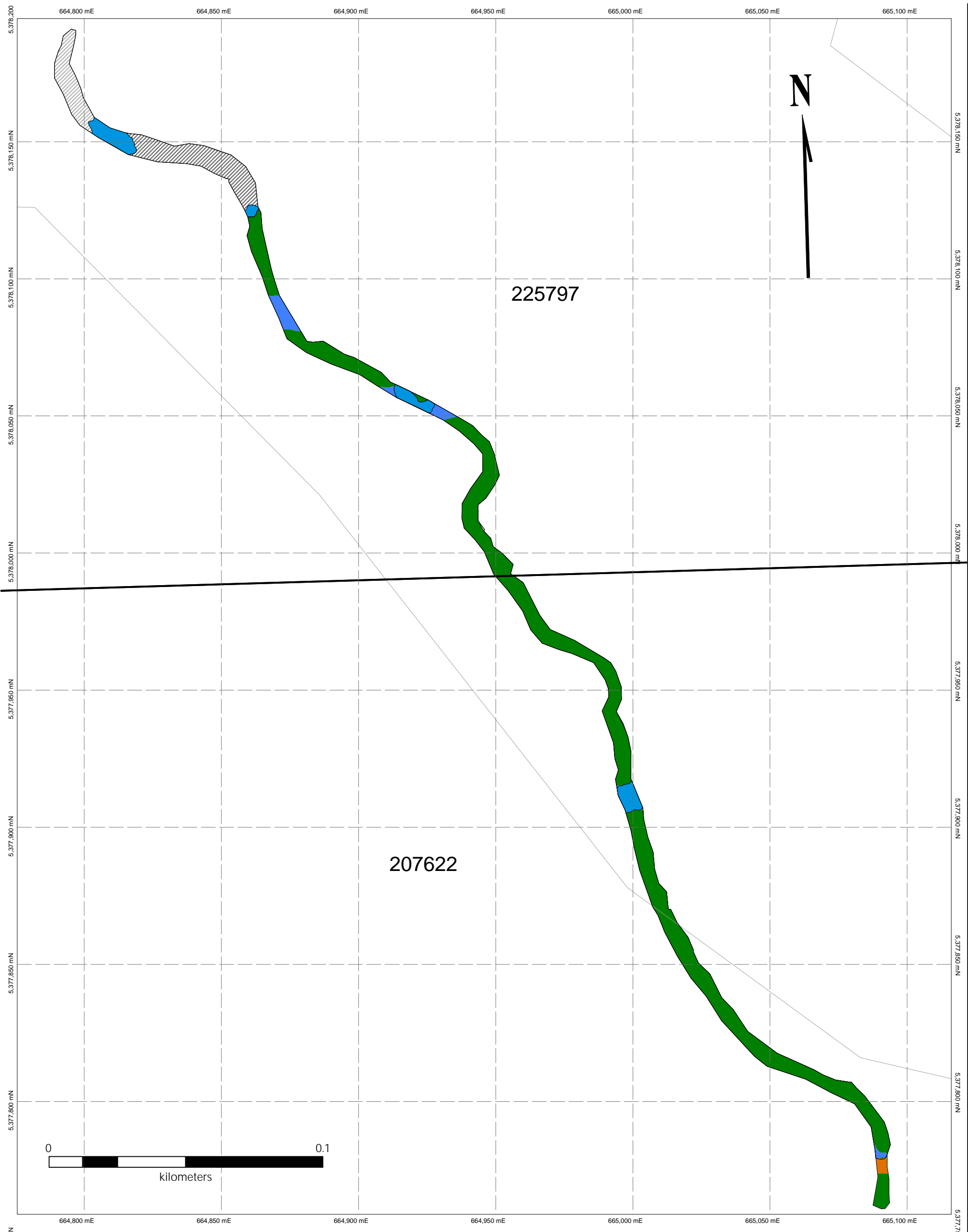
UTM Zone 15 (NAD 83)

# Huronian Project













## 2019 Trenching

### Trench 43



**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

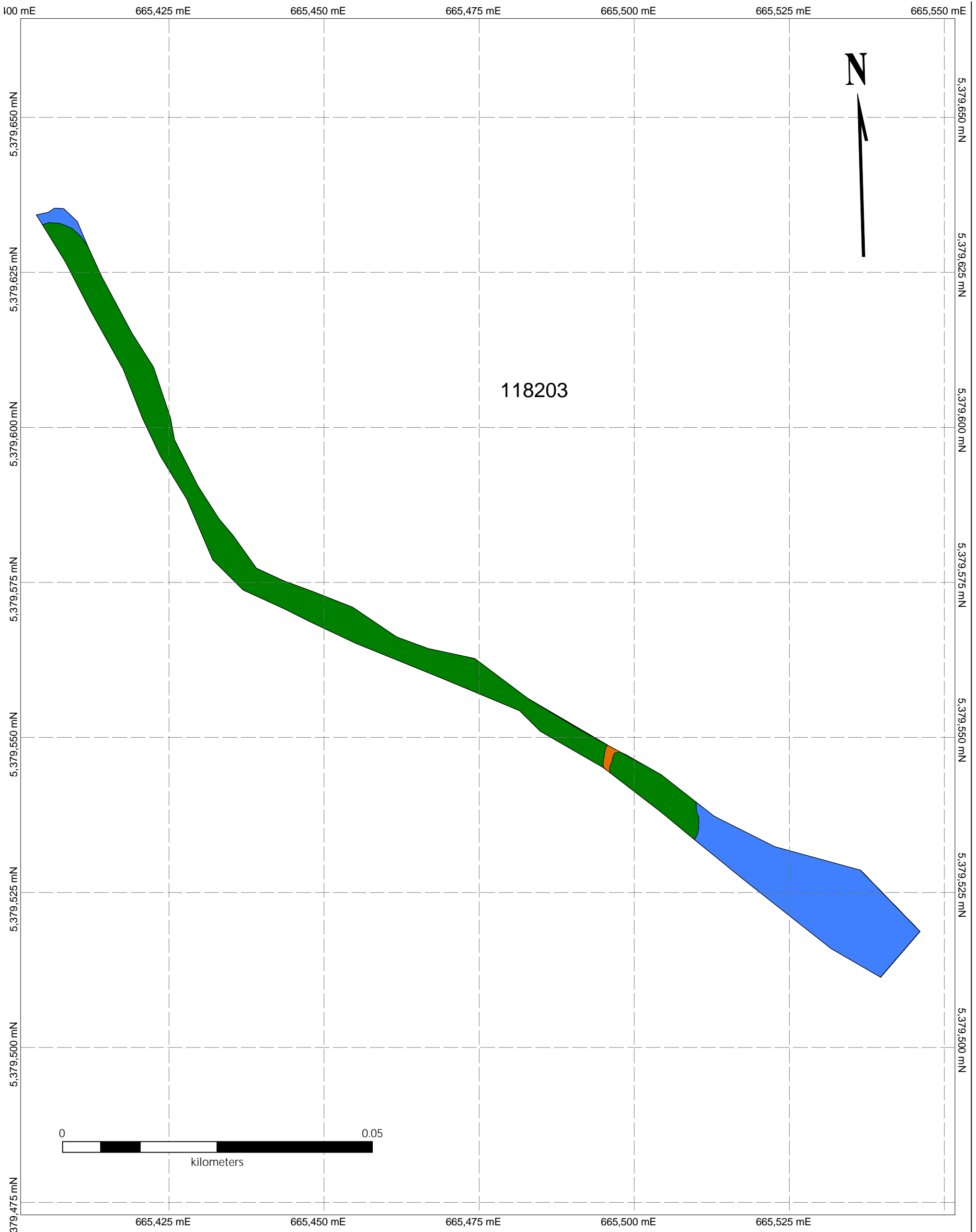
November 25, 2020

Moss Township













UTM Zone 15 (NAD 83)

**Huronian Project**  
**2019 Trenching**  
**Trench 44**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

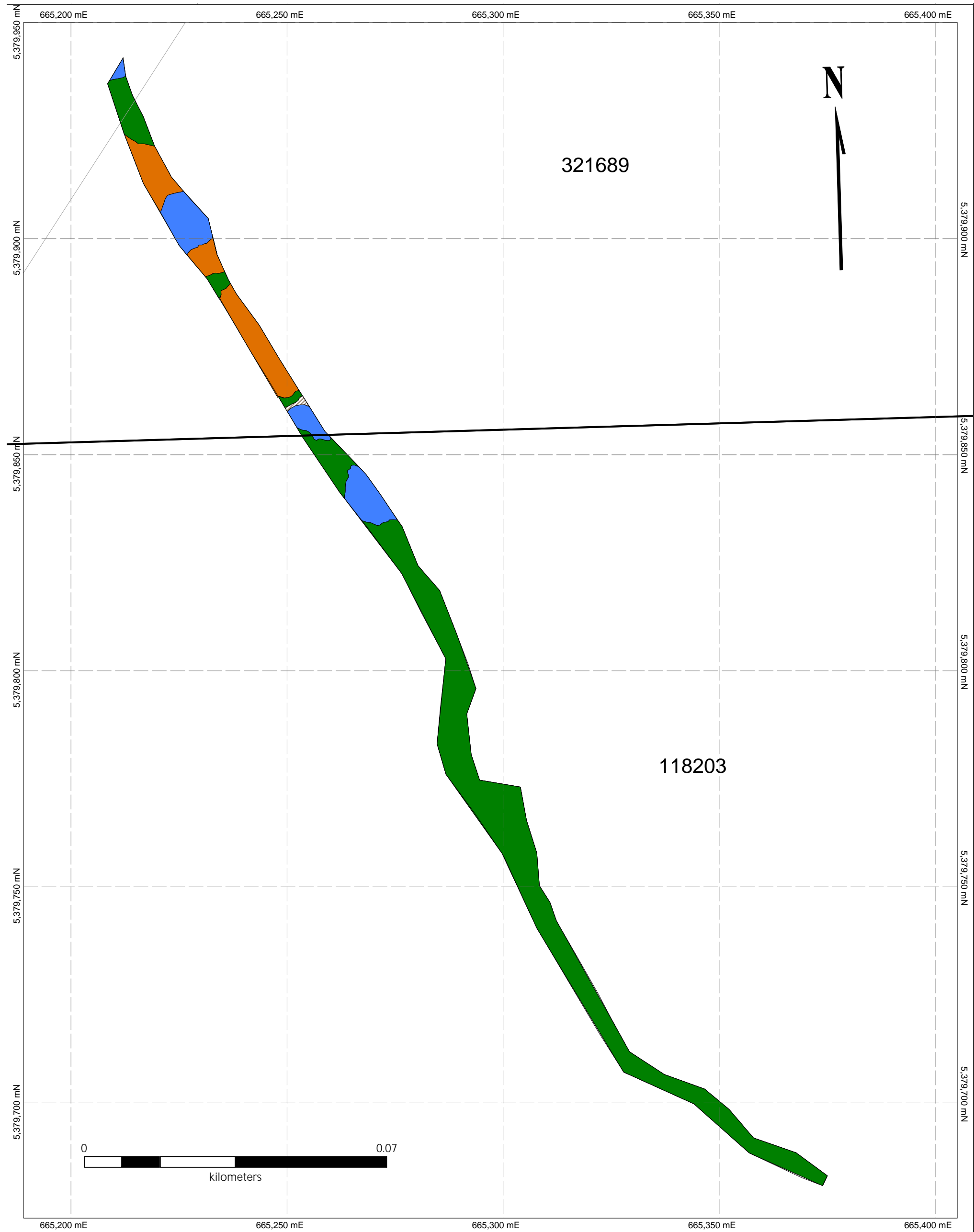
November 25, 2020

Moss Township













UTM Zone 15 (NAD 83)

**Huronian Project  
2019 Trenching  
Trench 45**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

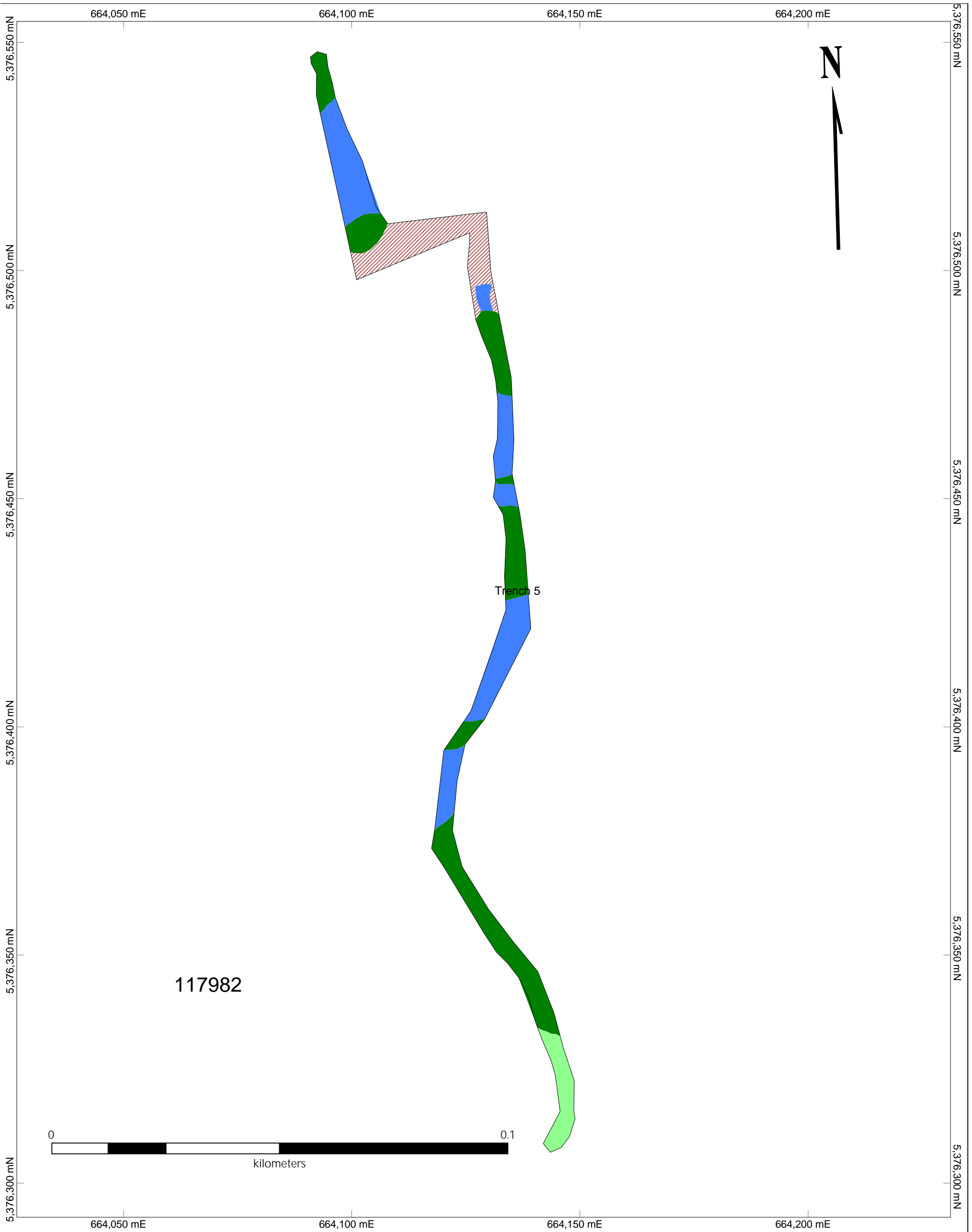
November 25, 2020

Moss Township













UTM Zone 15 (NAD 83)

**Huronian Project  
2019 Trenching  
Trench 46**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		Overburden

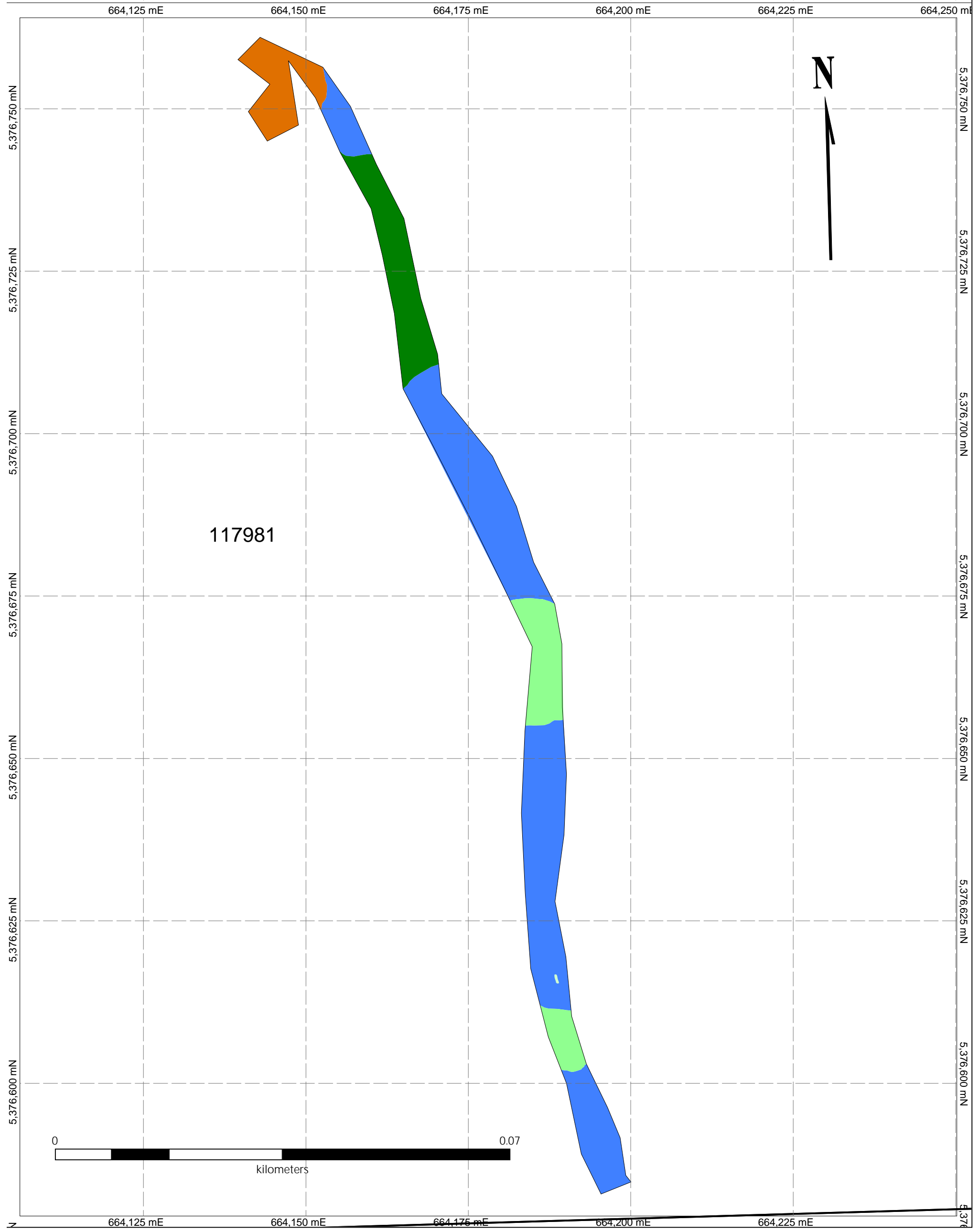
November 25, 2020

Moss Township












UTM Zone 15 (NAD 83)

**Huronian Project**  
**2019 Trenching**  
**Trench 5**





**LEGEND**

	Intermediate Volcanics		Iron Formation
	Intermediate Lapilli Tuff		Feldspar Porphyry
	Mafic Volcanics		Quartz Feldspar Porphyry
	Intermediate -Mafic Lapilli Tuff		Quartz Feldspar Porphyry
	Diabase		Water
	Mafic Derived Sediments		

November 25, 2020

Moss Township

UTM Zone 15 (NAD 83)

# Huronian Project 2019 Trenching Trench 6





**22 Appendix VI – Trench Maps by Sample**



# TRENCH 1 North




208277

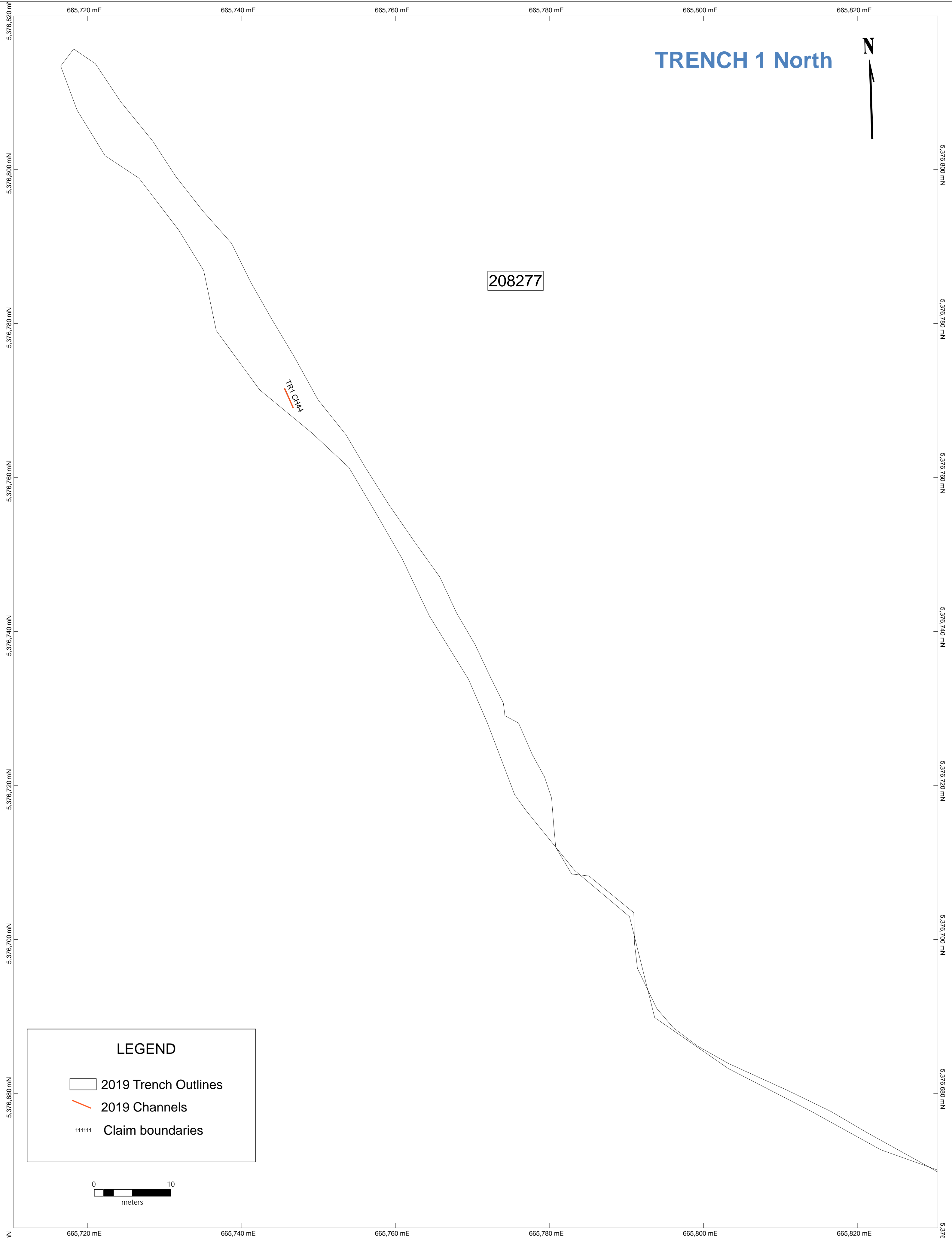
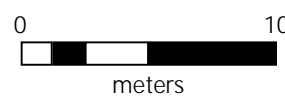
T1 CH44

## LEGEND

 2019 Trench Outlines

 2019 Channels

111111 Claim boundaries






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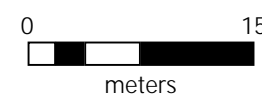


208277

322316

**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries



665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE 665,990

# TRENCH 1 South

322316



5,376,430 mN 5,376,420 mN 5,376,410 mN 5,376,400 mN 5,376,390 mN 5,376,380 mN 5,376,370 mN 5,376,360 mN 5,376,350 mN 5,376,340 mN

665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

5,376,390 mN 5,376,380 mN 5,376,370 mN 5,376,360 mN 5,376,350 mN 5,376,340 mN

665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

5,376,330 mN 5,376,320 mN 5,376,310 mN 5,376,300 mN 5,376,290 mN 5,376,280 mN 5,376,270 mN 5,376,260 mN 5,376,250 mN 5,376,240 mN

665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

5,376,230 mN 5,376,220 mN 5,376,210 mN 5,376,200 mN 5,376,190 mN 5,376,180 mN 5,376,170 mN 5,376,160 mN 5,376,150 mN 5,376,140 mN

665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

5,376,130 mN 5,376,120 mN 5,376,110 mN 5,376,100 mN 5,376,090 mN 5,376,080 mN 5,376,070 mN 5,376,060 mN 5,376,050 mN 5,376,040 mN

665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

5,376,030 mN 5,376,020 mN 5,376,010 mN 5,376,000 mN 5,375,990 mN 5,375,980 mN 5,375,970 mN 5,375,960 mN 5,375,950 mN 5,375,940 mN

665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

5,375,930 mN 5,375,920 mN 5,375,910 mN 5,375,900 mN 5,375,890 mN 5,375,880 mN 5,375,870 mN 5,375,860 mN 5,375,850 mN 5,375,840 mN

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665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

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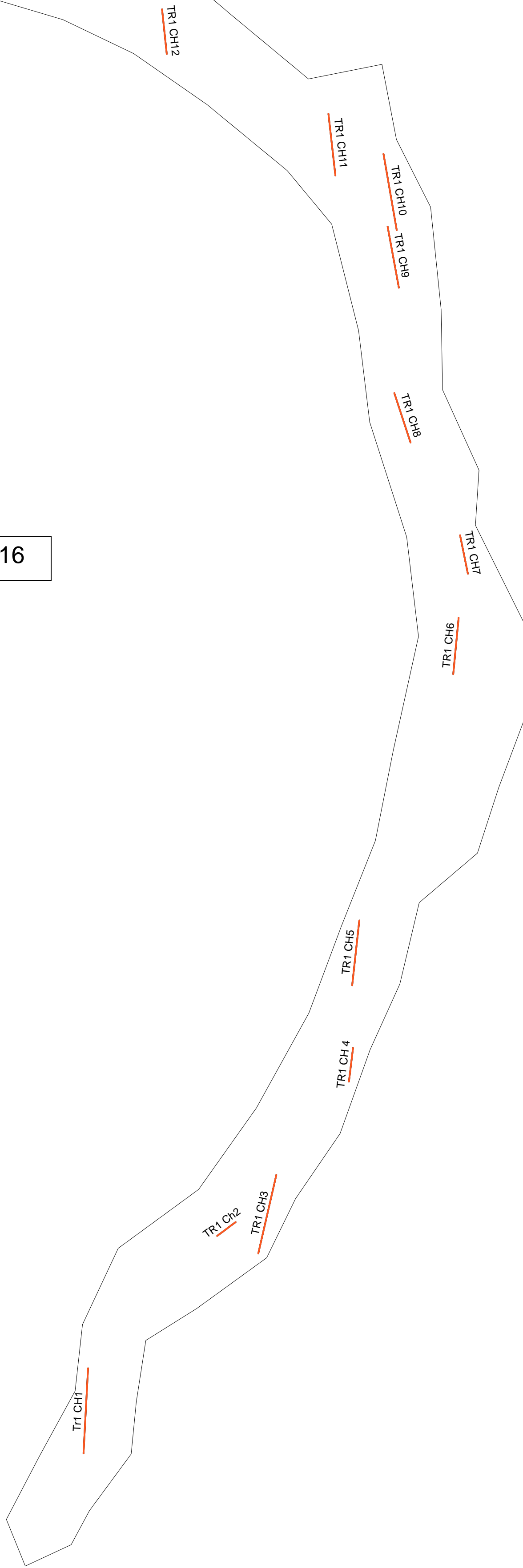
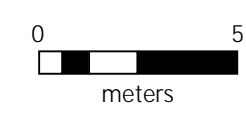
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665,920 mE 665,930 mE 665,940 mE 665,950 mE 665,960 mE 665,970 mE 665,980 mE

**LEGEND**

- 2019 Trench Outlines
- 2019 Channels
- Claim boundaries



# TRENCH 29 North



285776

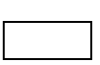

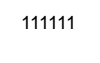
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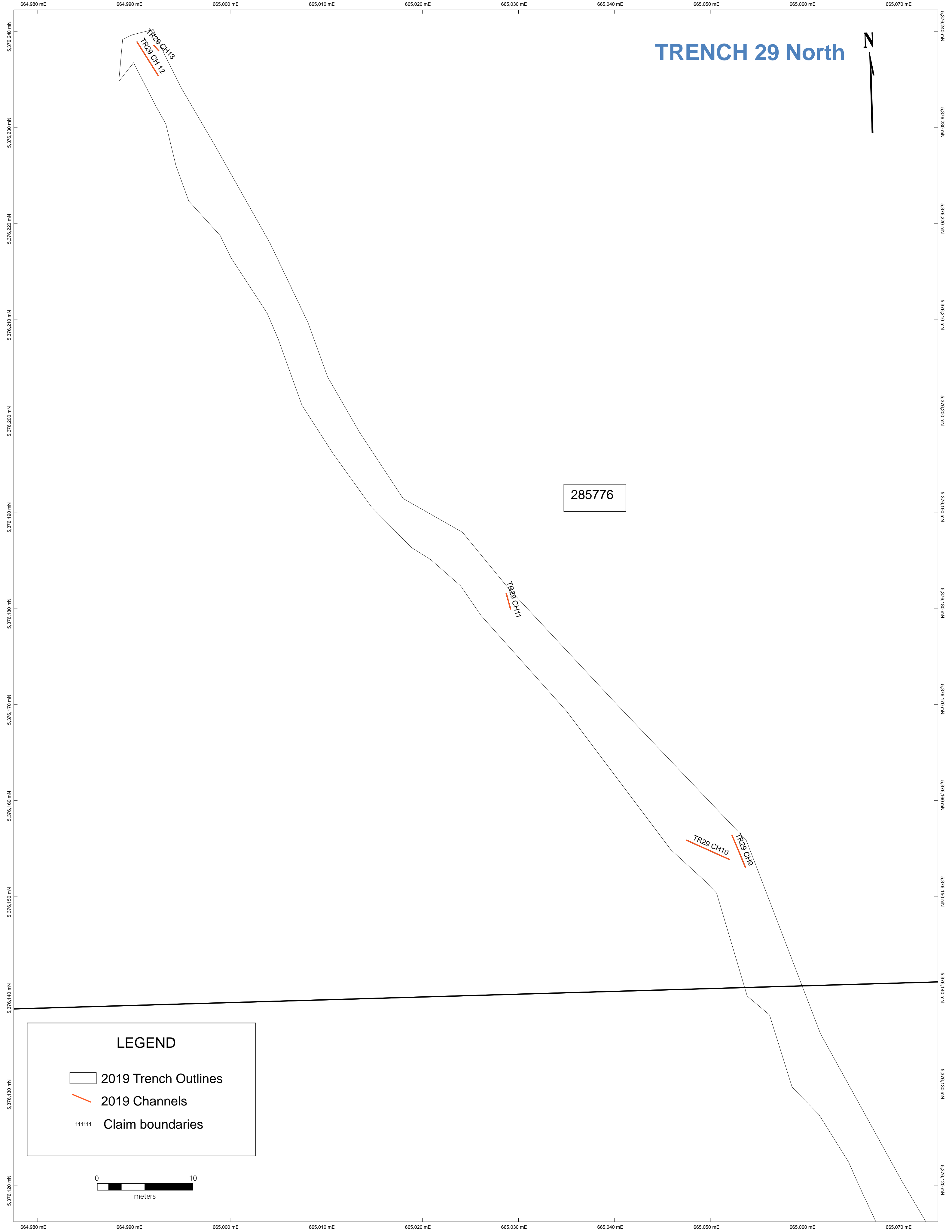
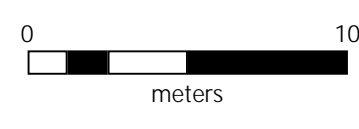
TR29-CH11

TR29-CH10

TR29-CH9

**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries






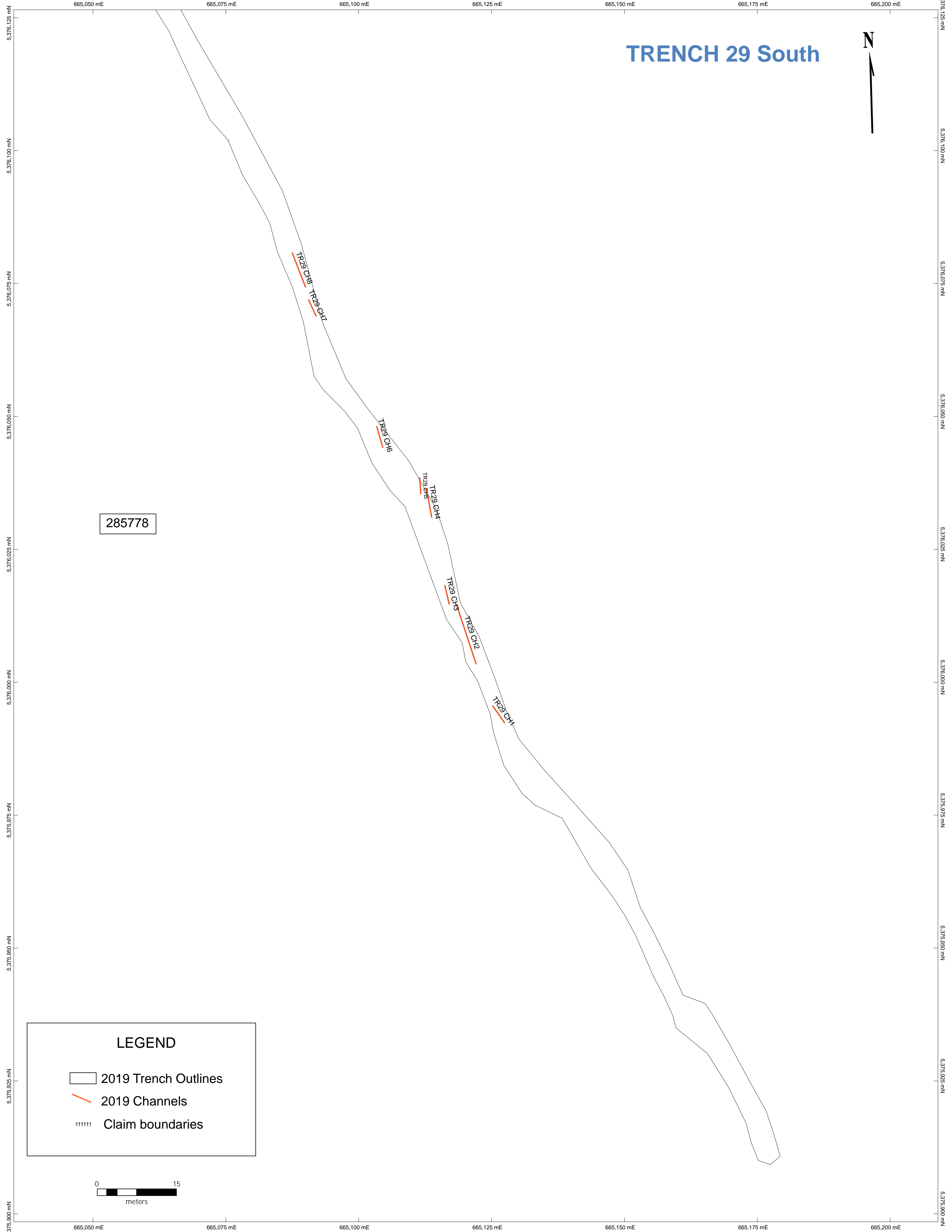
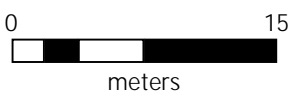
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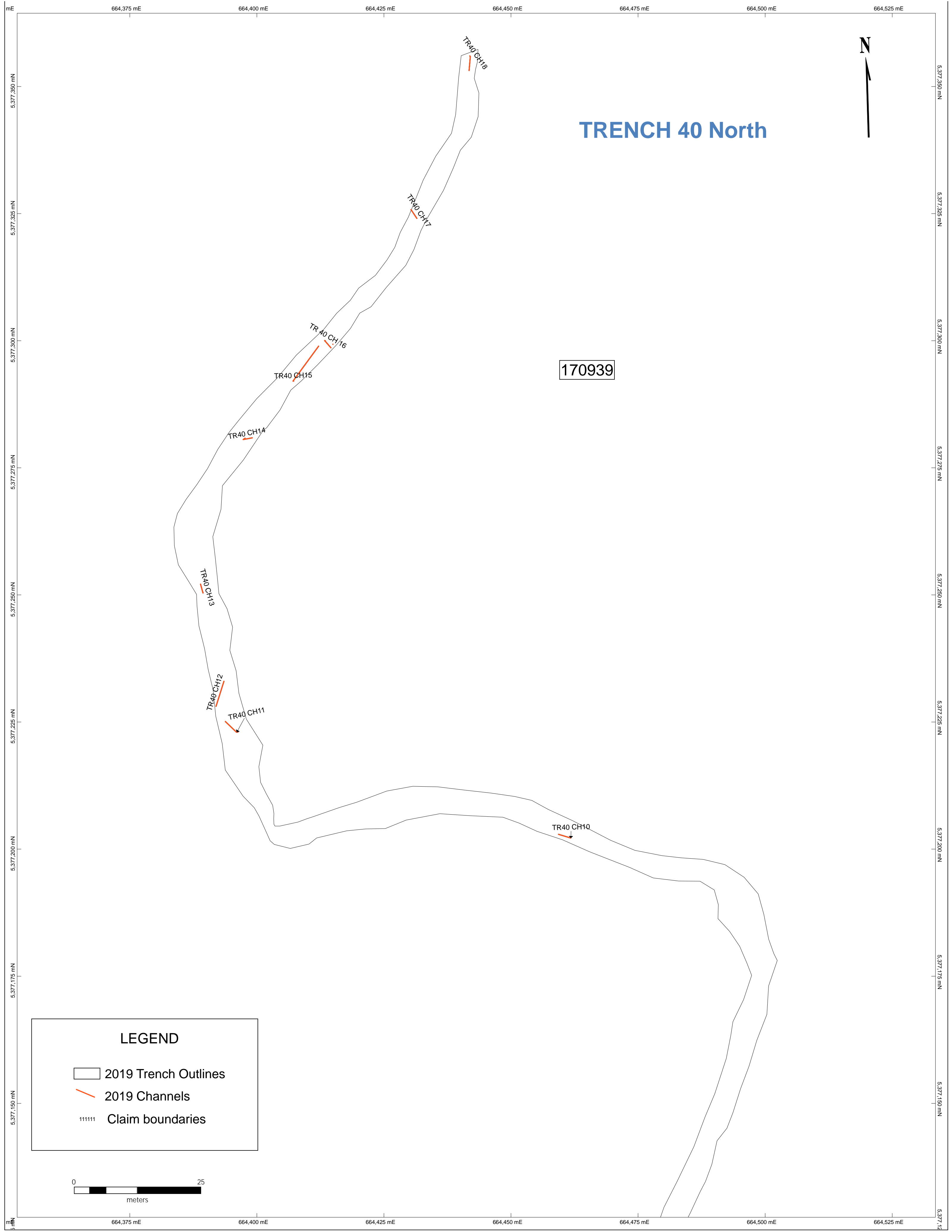


285778

**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries








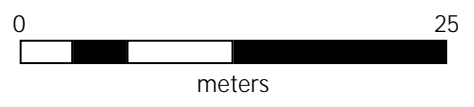
# TRENCH 40 North

170939



**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries






# TRENCH 40 South

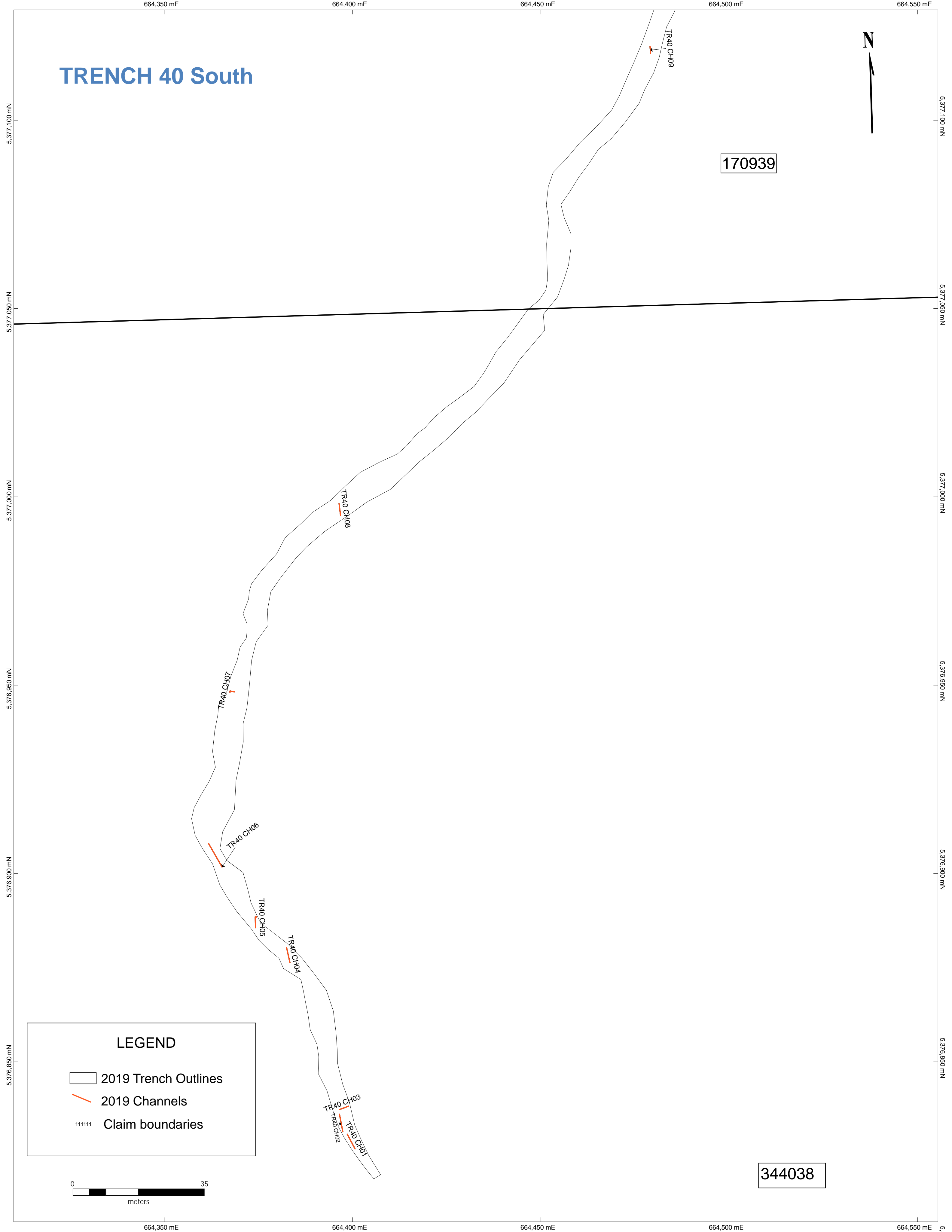
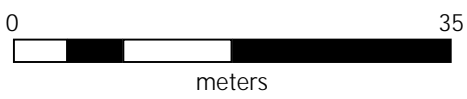


170939

344038

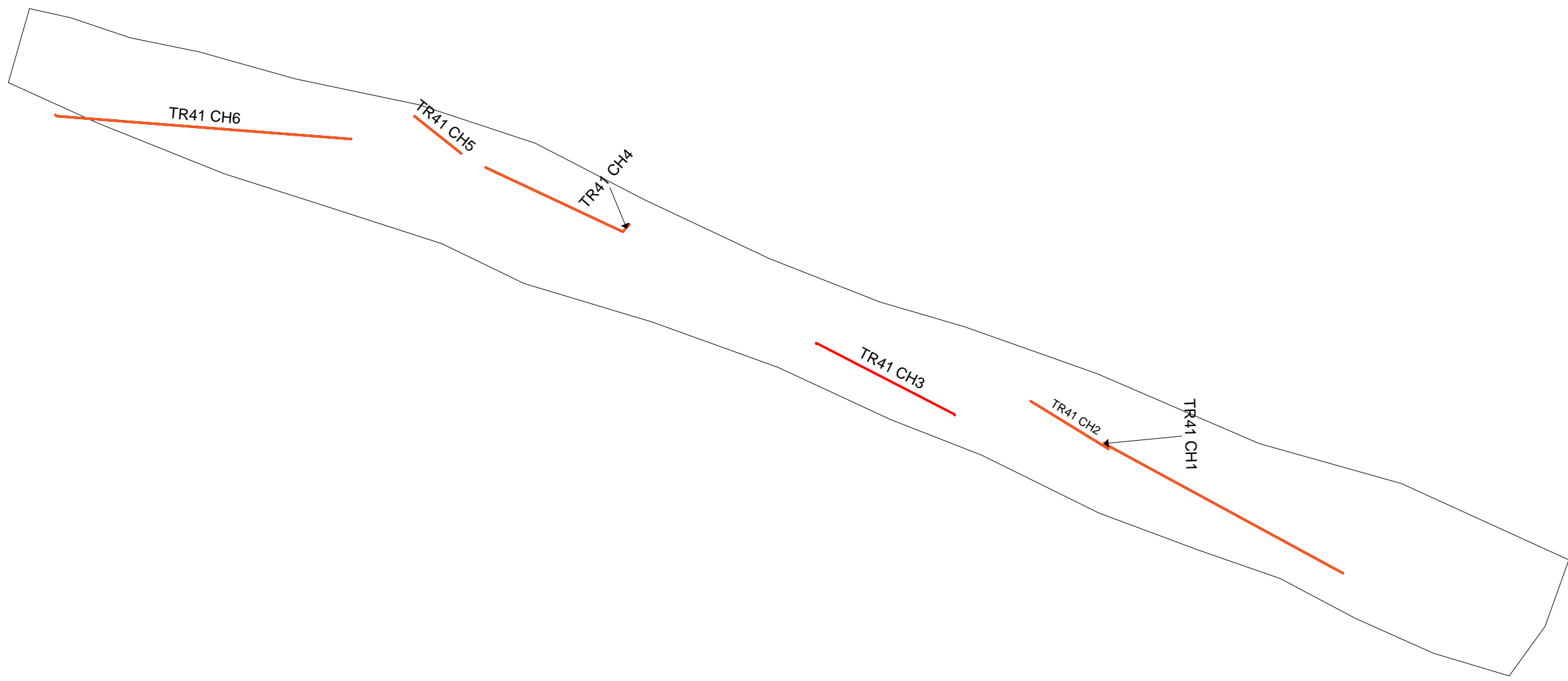
**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries






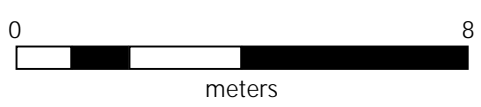
# TRENCH 41

117981



## LEGEND

-  2019 Trench Outlines
-  2019 Channels
-  111111 Claim boundaries








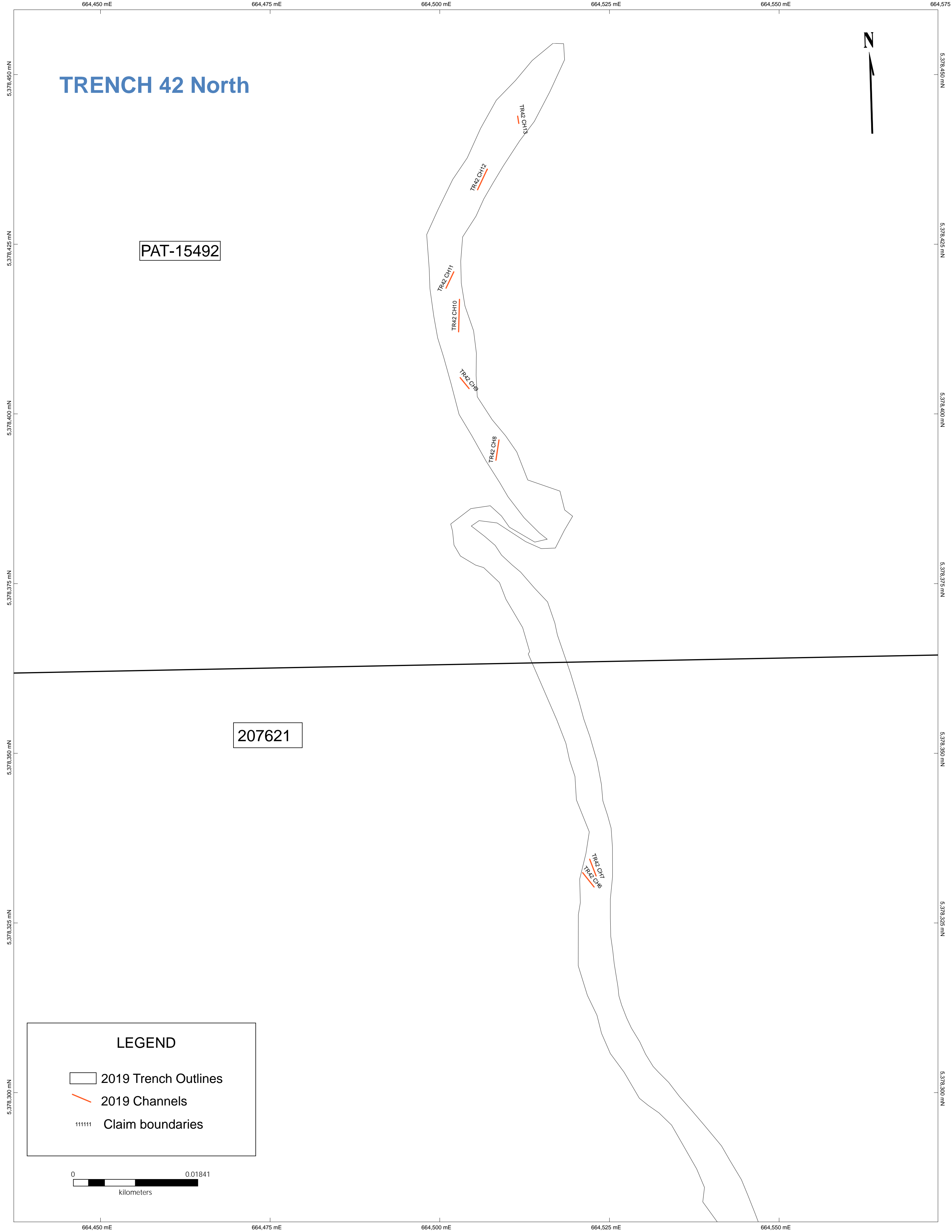
# TRENCH 42 North

PAT-15492

207621

**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries



# TRENCH 42 South






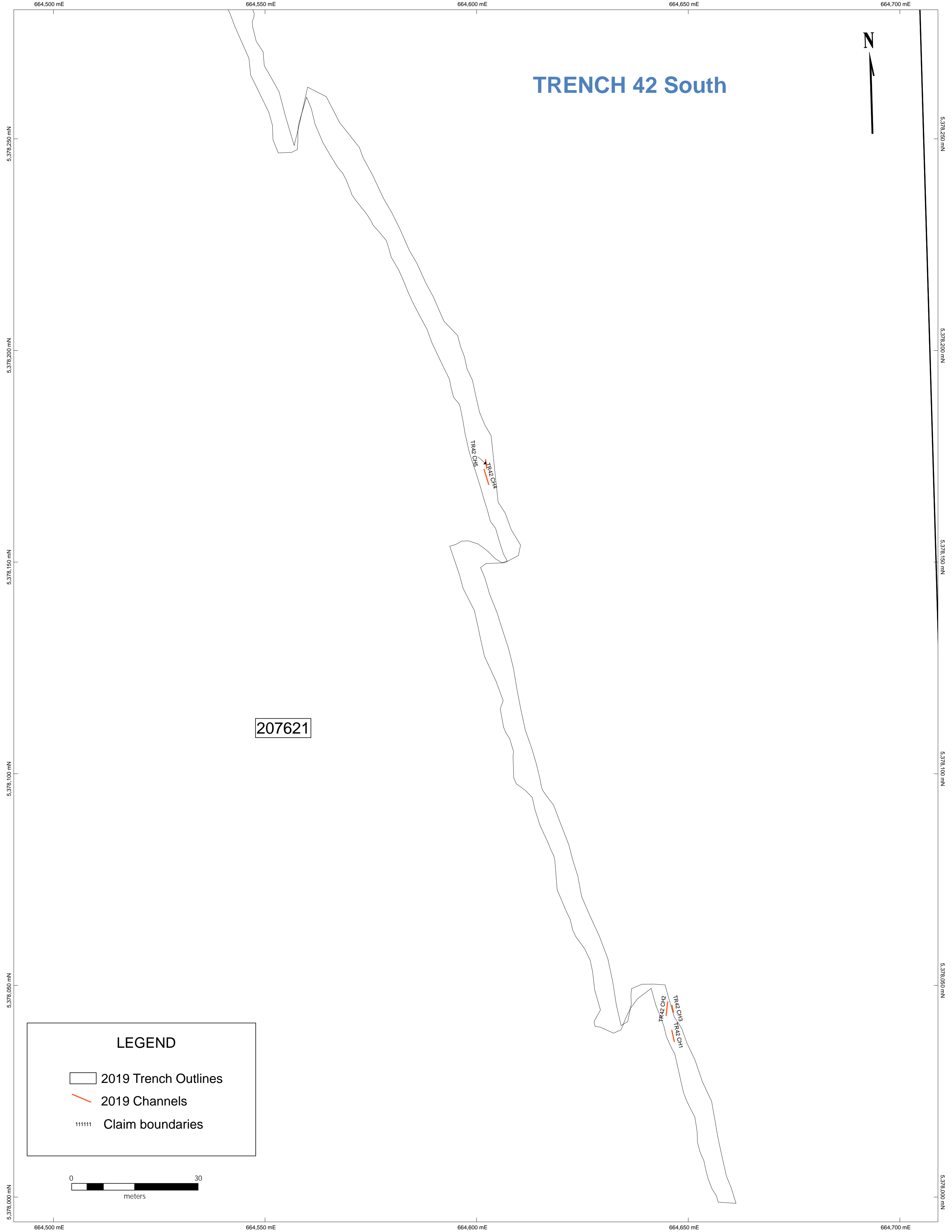
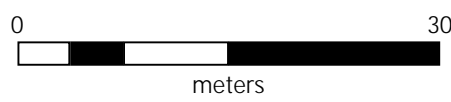
207621

TR42 CH1  
TR42 CH2

TR42 CH1  
TR42 CH2  
TR42 CH3

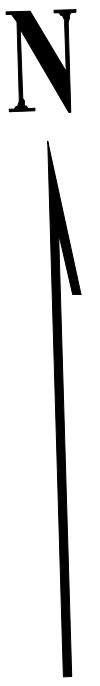
## LEGEND

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries






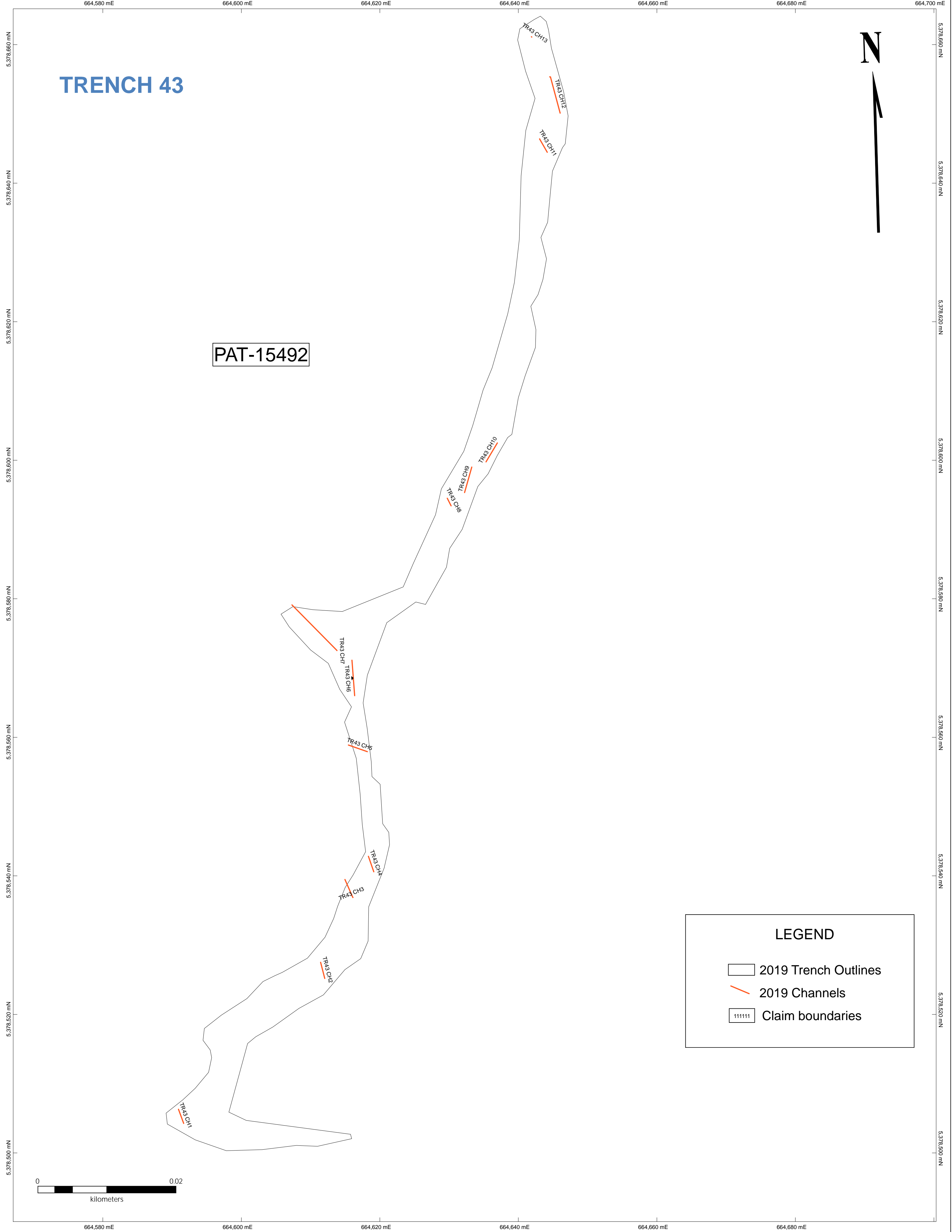
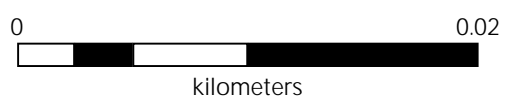
# TRENCH 43

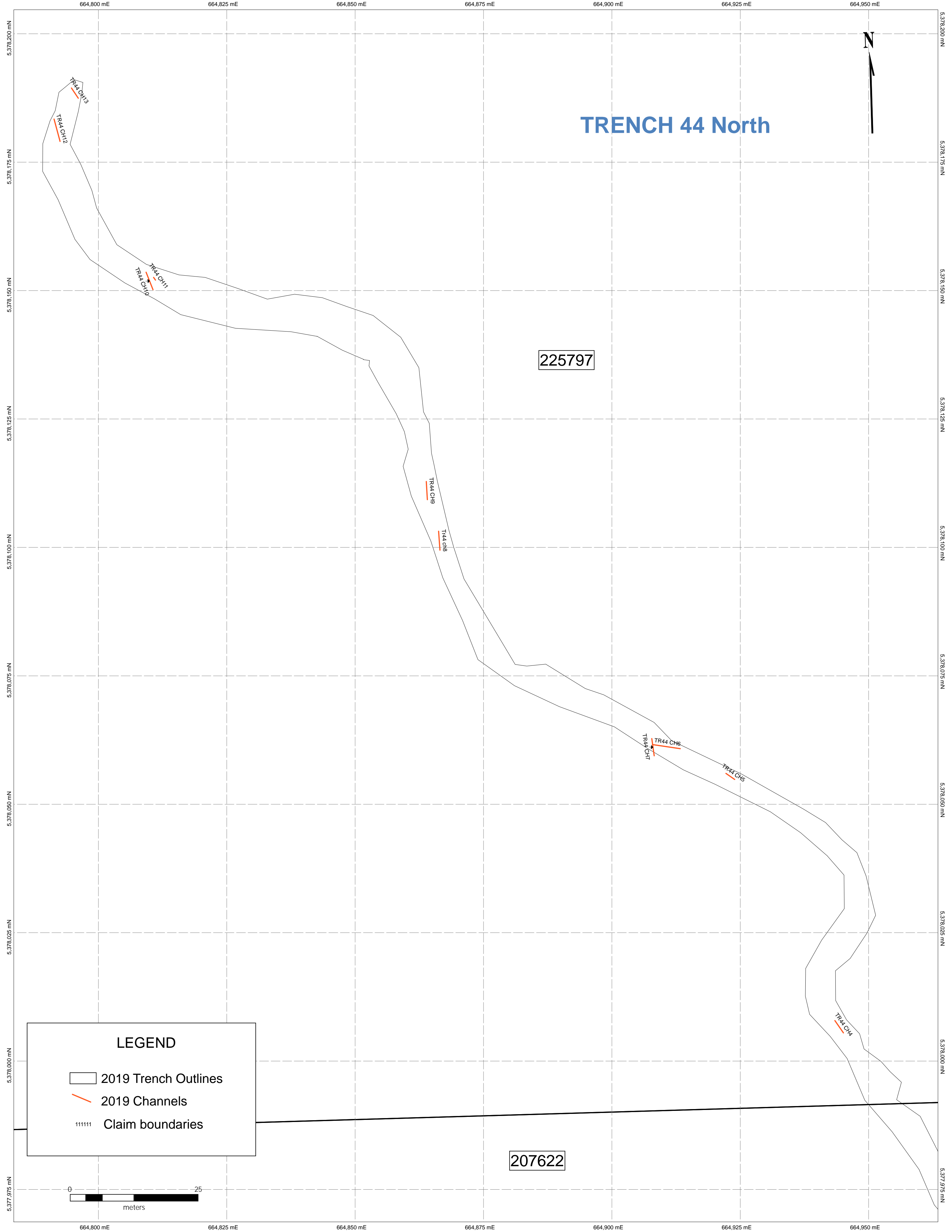
PAT-15492



**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries





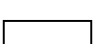

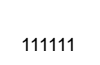
# TRENCH 44 North

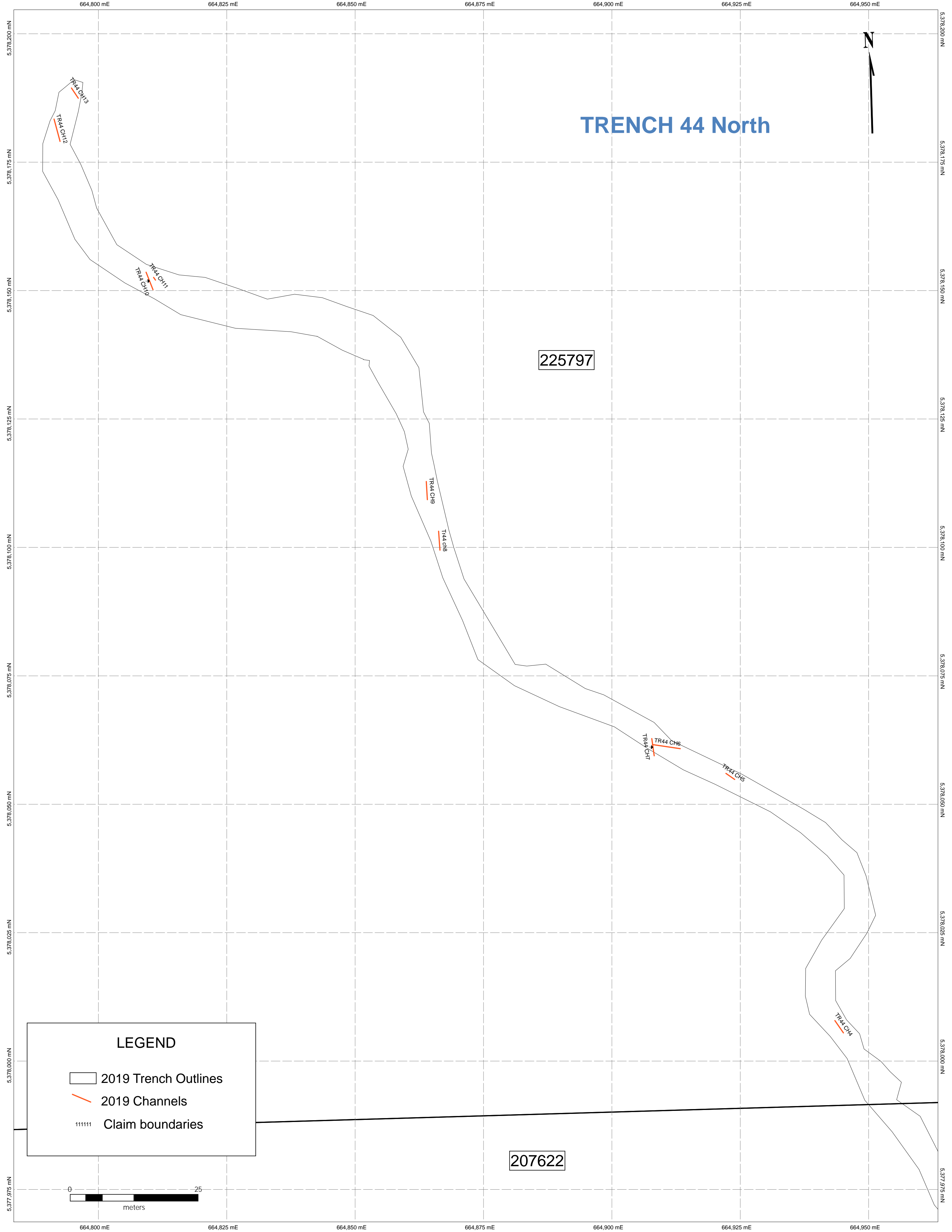
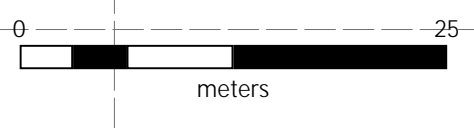


225797

207622

## LEGEND

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries






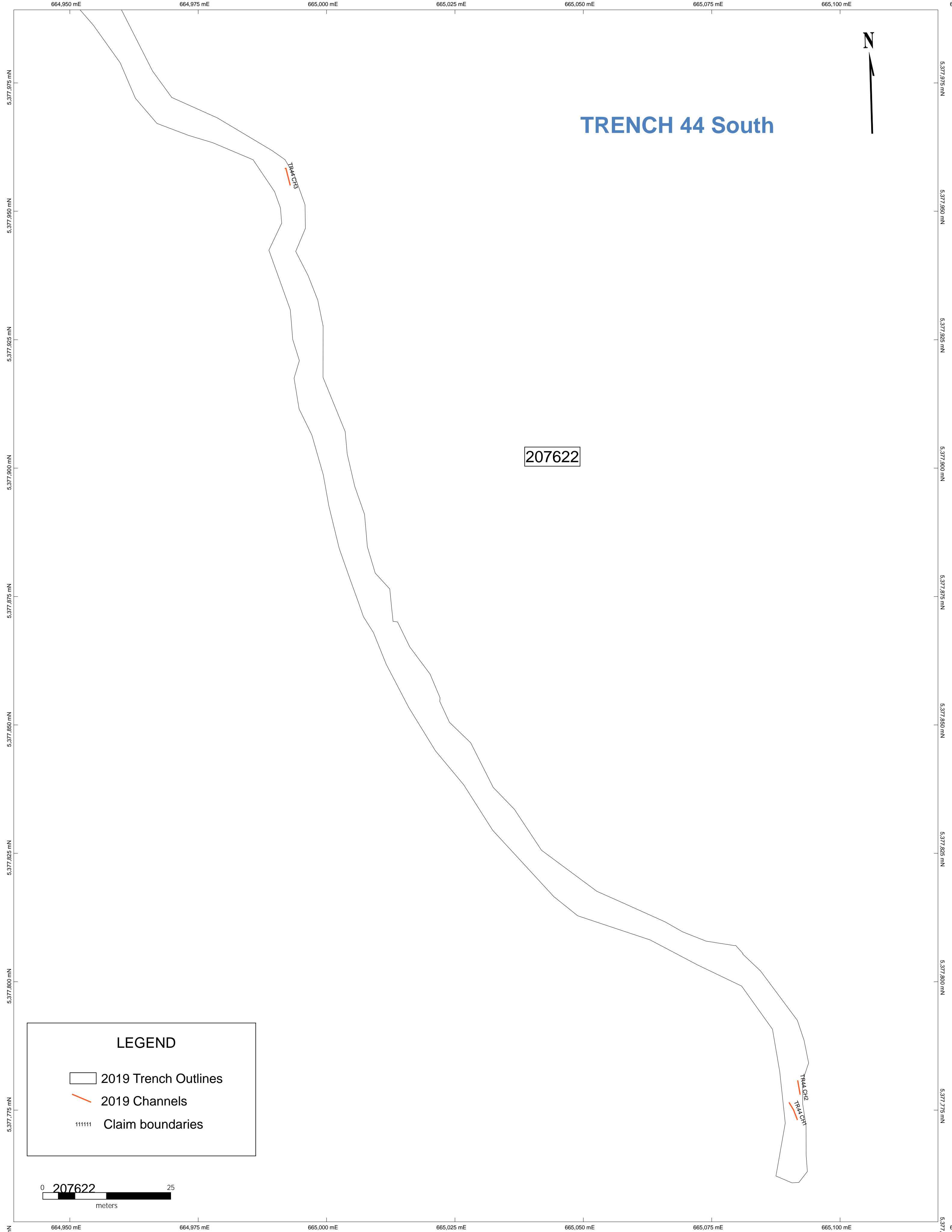
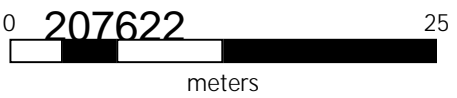
# TRENCH 44 South



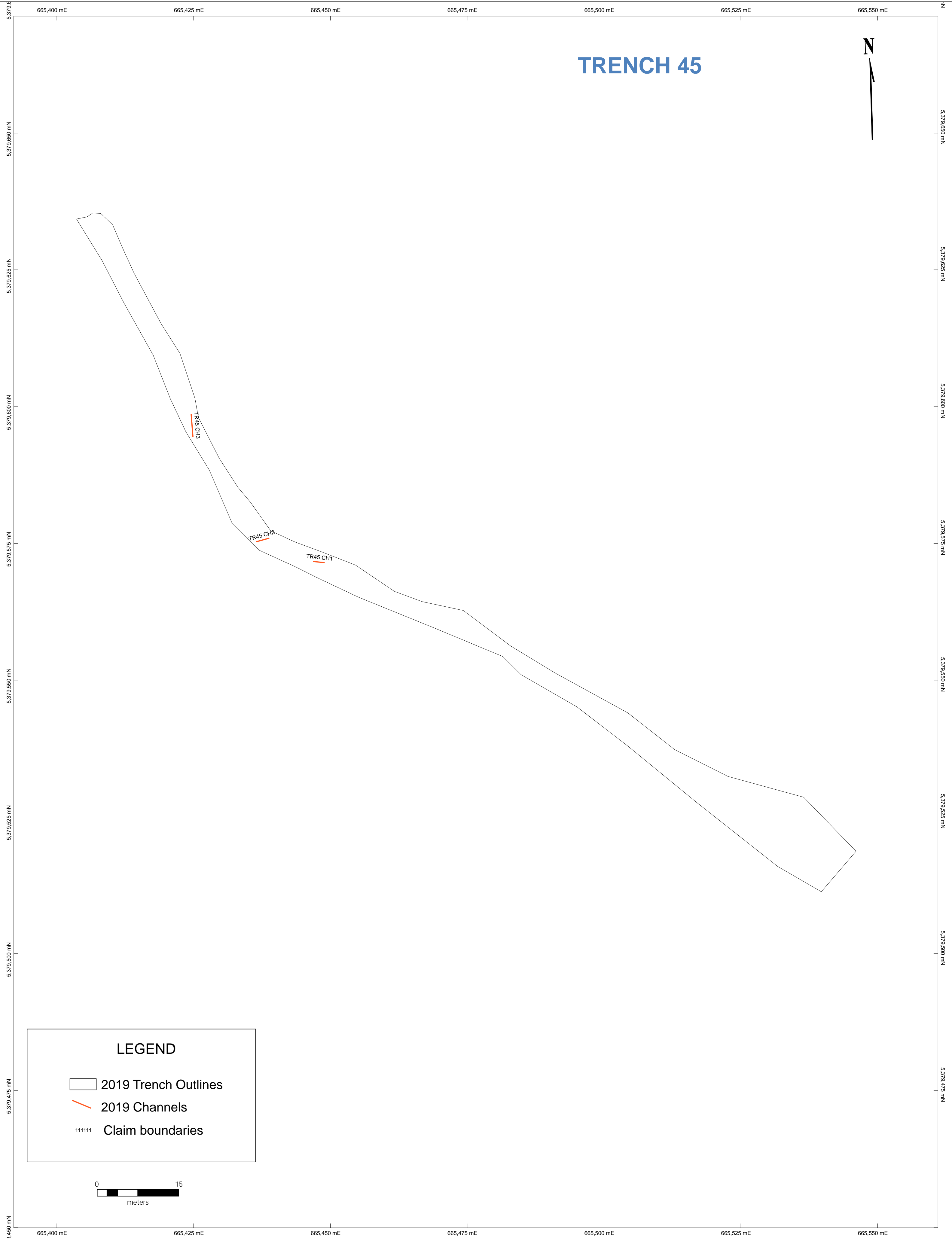
207622

**LEGEND**




-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries

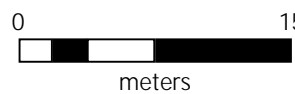


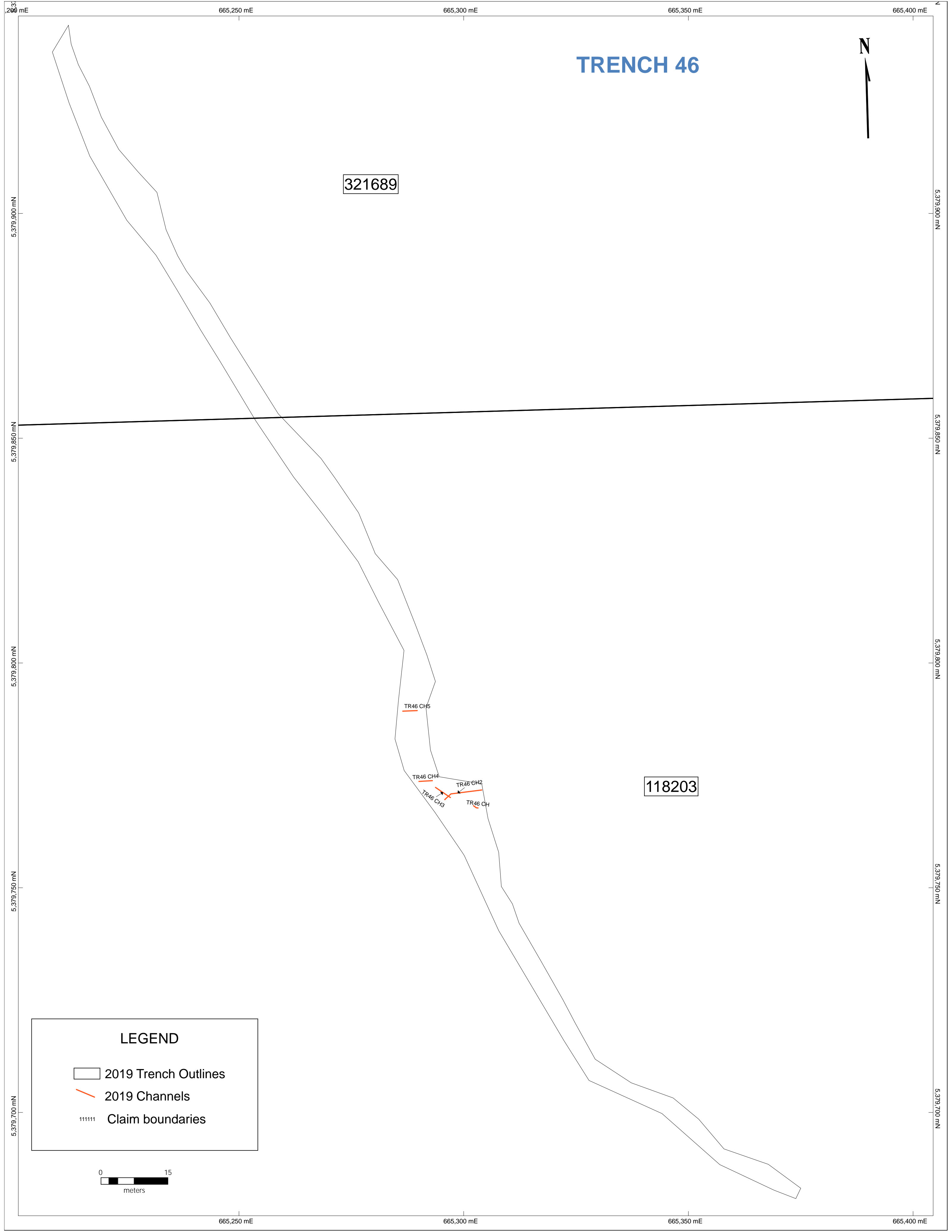
# TRENCH 45



## LEGEND

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries








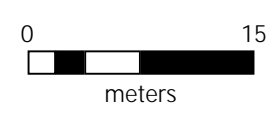
# TRENCH 46

321689

118203

## LEGEND

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries






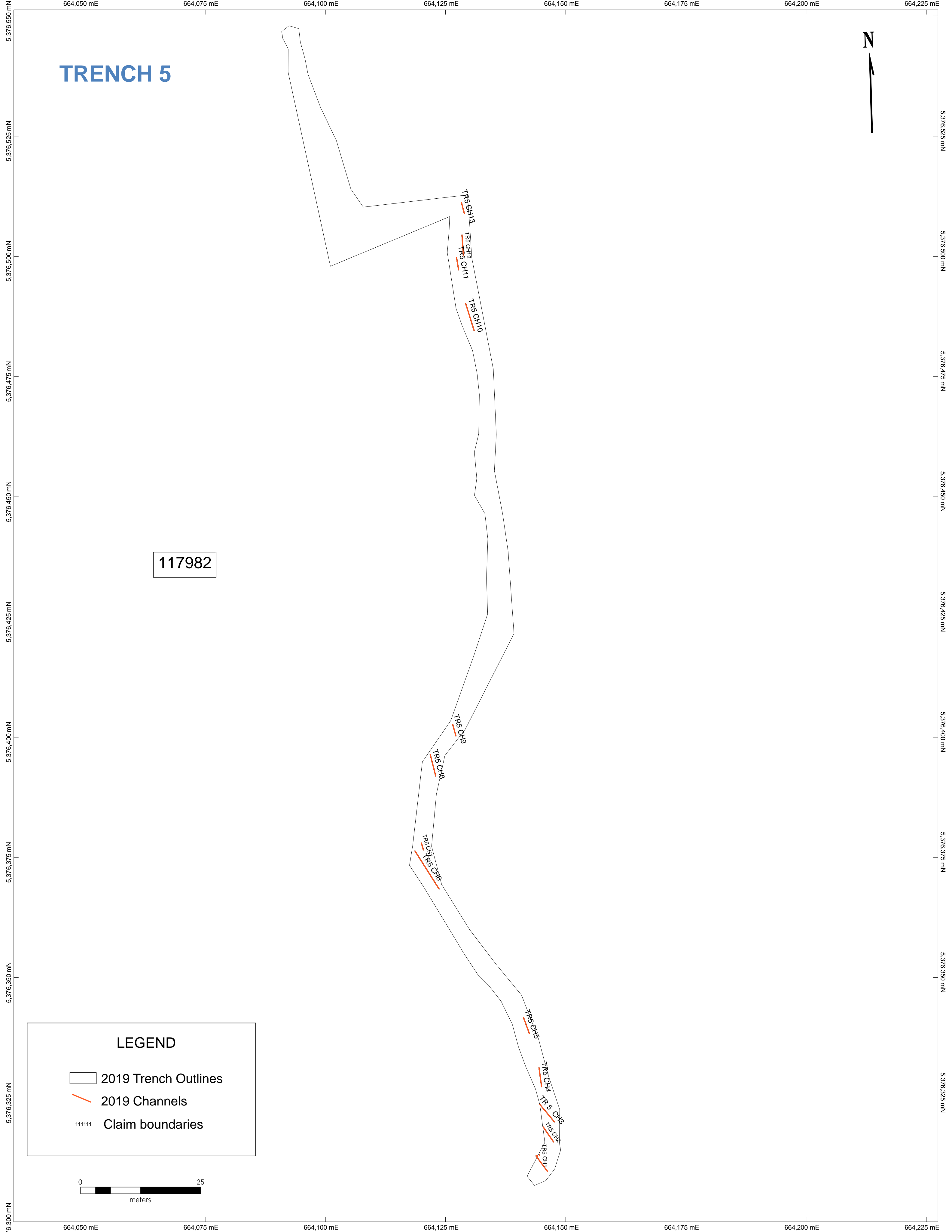
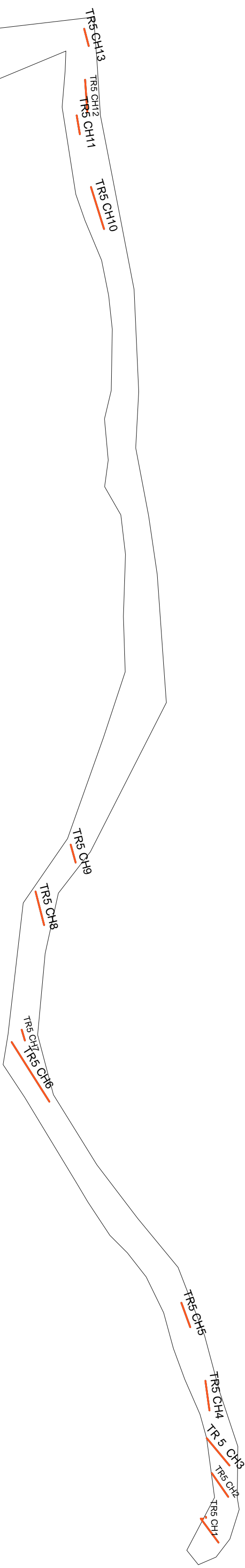
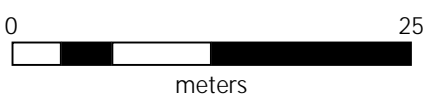
# TRENCH 5



117982

**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries








# TRENCH 6



117981

**LEGEND**

-  2019 Trench Outlines
-  2019 Channels
-  Claim boundaries

