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Claim No 745860; Report of Assessment Work 2023

Lost Hope Mine Kirkland West Gold Project

Eby Township, Larder Lake Mining Division, Ontario, Canada

Prepared by: M.A. Raitanen, C.E.T., on behalf of Lost Hope Mine Ltd.

02/26/24

Acknowledgement

We acknowledge the financial support of the Province of Ontario for the Project through the Ontario Junior Exploration Program (OJEP).

The views expressed in the publication are the views of Lost Hope Mine Ltd. and do not necessarily reflect those of the Province.



Abstract

This technical report, titled “Claim No 745860; Report of Assessment Work 2023 – Lost Hope Mine Kirkland West Gold Project,” offers a comprehensive account of early stage exploration activities (grassroots prospecting) conducted on claim 745860 during the 2023 exploration season. Prepared by M.A. Raitanen, C.E.T., for Lost Hope Mine Ltd., the report details the methodologies employed, data collection processes, and results obtained. Covering location details, regional and site geology, exploration history, and fieldwork, the report concludes with key findings from soil and rock sample analyses, offering recommendations for further investigation. This document serves as an essential resource for project stakeholders and decision-makers involved in Lost Hope Mine’s Kirkland West Gold Project.

Contents

Acknowledgement 2
Abstract 3
Introduction 6
Location & Access 7
Regional Geology 9
Site Geology 10
Exploration History 11
Field Work & Methodology 12
Findings 25
Recommendations 42
References 43
Appendix A – Statement of Qualifications 44
Appendix B – Software Used 45
Appendix C - Assay Results 46
Appendix D - EM-16 Specifications 58
Appendix E - Survey Field Notes 59
Appendix F - Soil Sample Logs 64

Tables & Figures

Table 1: daily log of work 12
Table 2: Rock and soil samples with descriptions 24
Table 3: VLF readings 24
Table 4: Summary of assay results 25

Figure 1: Regional Map showing project location 7
Figure 2: Map of Glacial Lake Agassiz and Lake Ojibway 8
Figure 3: Map of claim 745860 8
Figure 4: Soil sample SS2301 13
Figure 5: Soil sample SS2314 14
Figure 6: Soil sample SS2327 15
Figure 7: Grab sample GB2322, quartz breccia with pyrite 16
Figure 8: Typical quartz viens 17
Figure 9: Chalcopyrite typical, not assayed 18
Figure 10: Sample GB2336, foliated gneiss 19
Figure 11: Sample GB2331, quartz w/pink staining 20
Figure 12: Porphyry, typical, not assayed 21
Figure 13: Sample GB2325, epidote and hematite 22
Figure 14: Map of sample locations and line cuts 23
Figure 15: Line L100 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 26
Figure 16: Line L200 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 28
Figure 17: Line L300 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 30
Figure 18: Line L400 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 32
Figure 19: Line L500 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 34
Figure 20: Line L650 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 36
Figure 21: Line L800 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 38
Figure 22: Line L900 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data 40

Introduction

This technical report provides a comprehensive overview and summary of the work conducted on claim 745860, which is part of Lost Hope Mine's 'Kirkland West Gold Project', during the exploration season of 2023 (spring to fall). The primary objective of this report is to document the assessment activities carried out during this period. The work included the cutting of approximately 8km of lines in a North-South grid, followed by a ground-based electromagnetic (EM) survey and a soil and rock sampling program. Canadian Exploration Services was contracted to complete the line cuts. Samples were sent to ALS Canada & the University of Ottawa for analysis. The controls used in this study are referenced to UTM grid coordinates, specifically Zone 17N, within the North American Datum 1983 (NAD 83) projected coordinate system.

The report aims to provide a detailed account of the methodologies employed, the data collected, and the results obtained from the various assessment activities. It will also discuss the significance of these findings in relation to the overall objectives of the Kirkland West Gold Project. The information presented in this report will serve as a valuable resource for stakeholders, investors, and other interested parties involved in the project.

The subsequent sections of this report will delve into the specific details of each assessment activity, including the procedures followed, the equipment used, and the outcomes achieved. Additionally, the report will highlight any notable observations, challenges encountered, and recommendations for future exploration efforts. Overall, this report serves as a comprehensive record of the work performed on claim 745860, providing a foundation for further analysis and decision-making regarding the Kirkland West Gold Project.

Location & Access

This seven-cell claim group is situated in the Larder Lake mining division, approximately 15 km southwest of the Town of Kirkland Lake and 30 km northeast of Matachewan. It is located about 600 km north of Ottawa or Toronto via Highway 11. Claim 745860, is positioned west of Highway 11 and Highway 66, specifically on West Road, across from Eby Pothole Road. The project falls within the Kirkland Lake Resident Geologist's District, Larder Lake Mining Division.

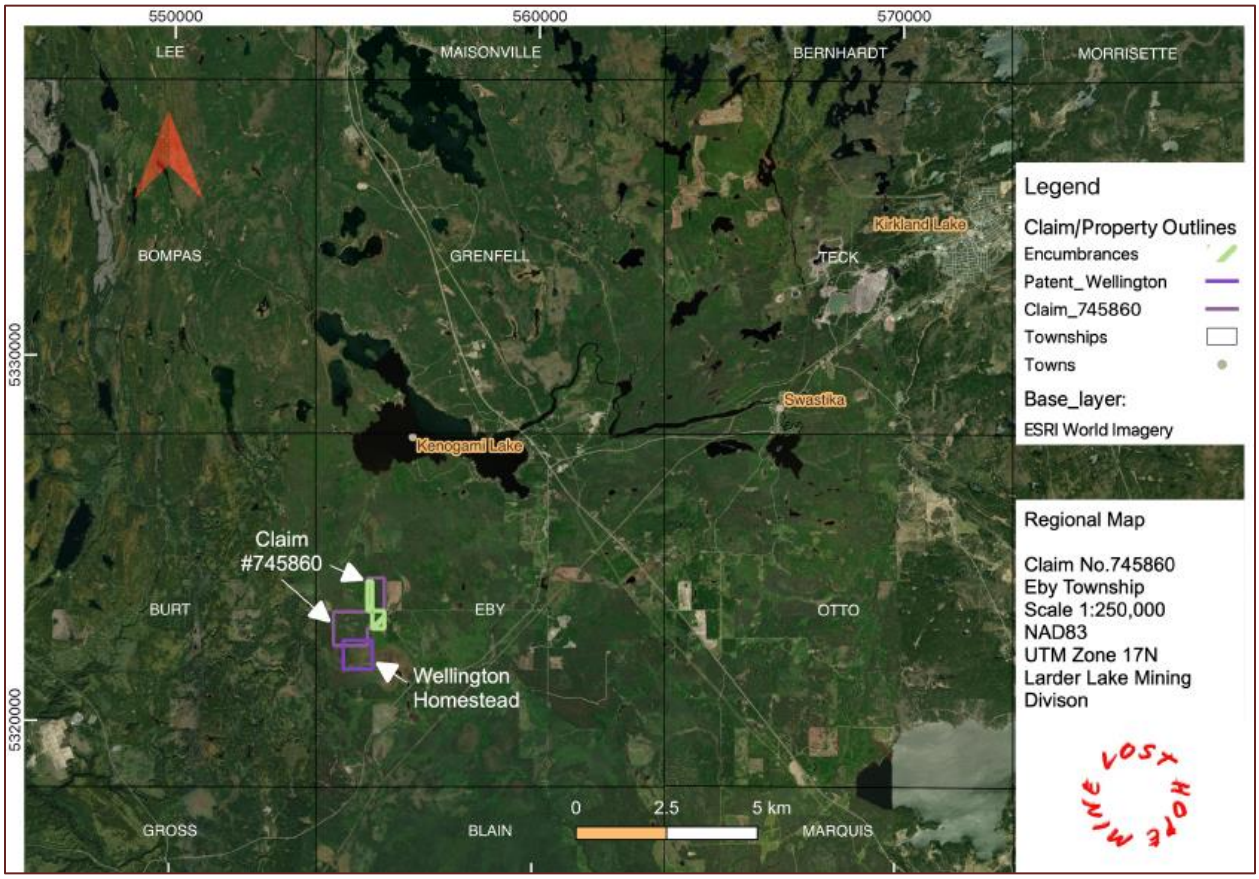


Figure 1: Regional Map showing project location

Three of the claim cells front West Road. West Road is a maintained gravel road, it is in excellent condition and accessible by car from Kirkland Lake, Toronto, or Ottawa. After parking, access to the property is by foot. A north-south grid consisting of lines cut at 100m intervals was established during the 2023 exploration season. There is a trail bisecting the property, which is essentially a line-cut without a prepared surface therefore it is only traversable by foot, it is not suitable for vehicles or any sort of wheeled traffic. Off-trail, the vegetation is extremely thick and by most definitions impassible. Dense transitions of tag alder and poplar appear to have been created by past small scale logging operations, likely wood lots used by the early settlers. Towards the south end of the property, the forest consists principally of balsam, black spruce, & tamarack and appears to be undisturbed by human activity. Just past the property, to the south, there is a peat bog and low lying area that the author surmises to be a remnant of glacial Lake Barlow-Ojibway.

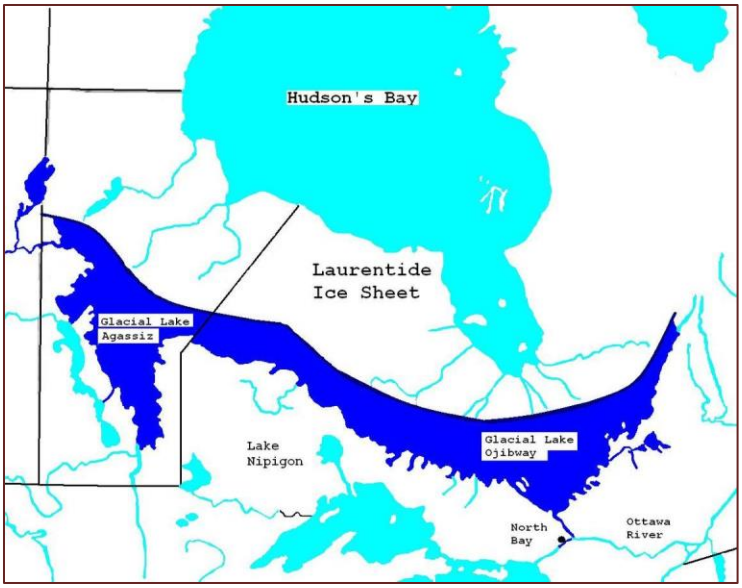


Figure 2: Map of Glacial Lake Agassiz and Lake Ojibway ca 7900 YBP. Designed from Teller and Leverington, 2004 (U.S. Geological Survey) Creative Commons License, Source: Wikipedia

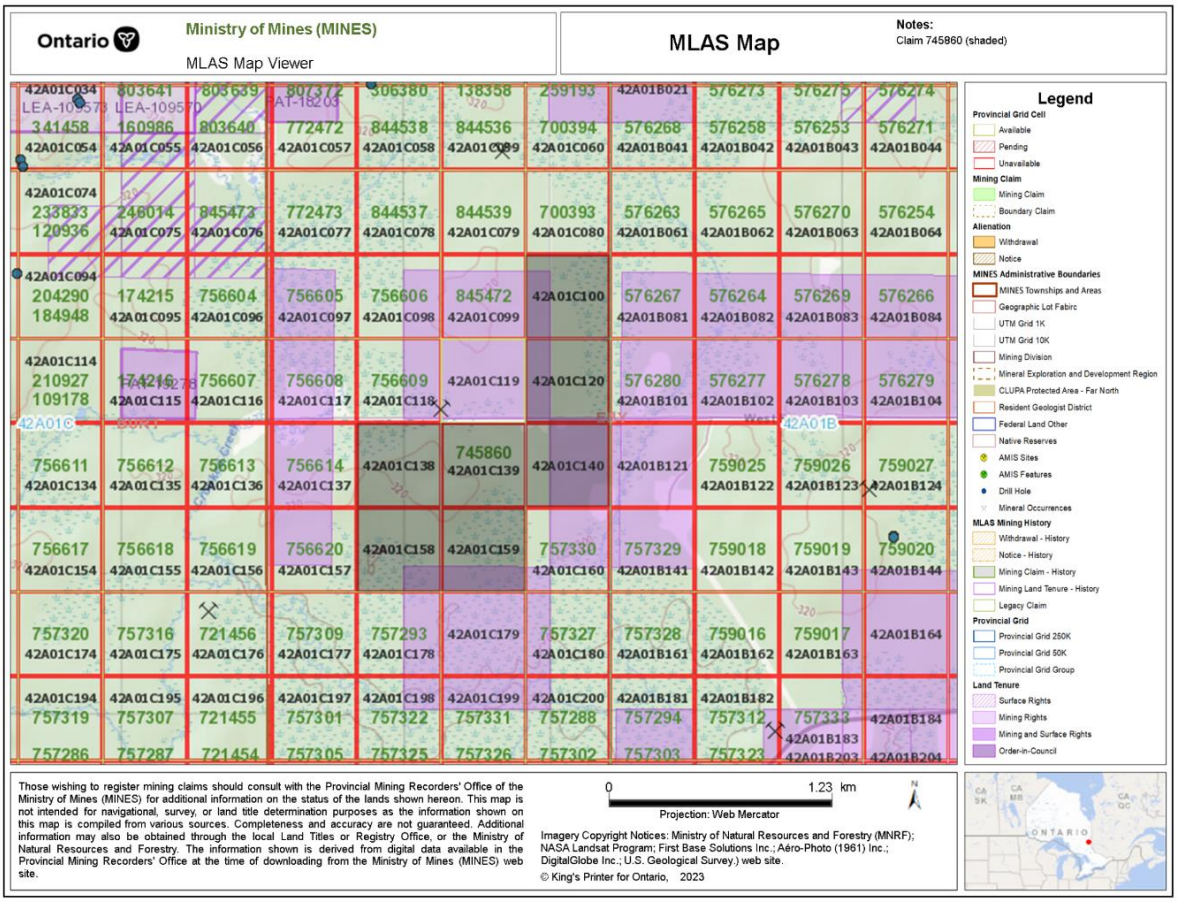


Figure 3: Map of claim 745860

Regional Geology

The subject area is situated along the Cadillac-Larder Lake Break, a fault zone within the Abitibi greenstone belt (Goodwin 1966). This region is characterized by a diverse range of geological formations, including volcanic, meta-sedimentary, and intrusive rocks from the Archean era (Lovell 1972). The Abitibi greenstone belt stretches approximately from Wawa in Ontario to Val D'Or in Quebec with historic production of over 200 million ounces of gold. Notably, Kirkland Lake is located within this belt and has played a significant role in the history of gold mining.

The Kirkland Lake Gold Rush of 1912, following the Cobalt Silver Rush in 1903, the Larder Lake Gold Rush in 1906, and the Porcupine Gold Rush in 1909, firmly established Kirkland Lake as a prominent gold mining site. Additionally, gold deposits were discovered in Swastika, located west of Kirkland Lake. The Cadillac-Larder Lake Break, which runs through the subject area, is host to seven mining camps, with a total historic production of 100 million ounces of gold (Poulson, 2017).

Situated northeast of the subject area, Kirkland Lake is recognized as the Kirkland Lake gold camp, a renowned region for gold production. With a total historic production of 70 million ounces of gold, it stands as one of the world's largest gold producing regions.

At the time of writing there are 3 active gold mines operating in the Kirkland Lake gold camp: the Macassa Mine in Kirkland Lake, Young-Davidson in Matachewan, and the Holt Complex Mine in Matheson. The subject property is located between the Macassa and Young-Davidson Mines, approximately 15 kilometers from Kirkland Lake and 30 kilometers from Matachewan. There are several projects in late development stage in the area, including Agnico Eagle's Upper Beaver project East of the town of Kirkland Lake. Multiple mineral processing mills, strategically located around Kirkland Lake, constitute a crucial network for processing and refining resources. Some of the notable mills include the Macassa Mine Mill in Kirkland Lake, the Holt Complex Mill in Matheson, the Young-Davidson Mine in Matachewan, the Canadian Malartic Mine in Val D'Or, and the Horne Smelter in Rouyn Noranda. These mills play a crucial role in extracting and processing minerals such as gold, silver, copper, and zinc from the surrounding areas. Kirkland Lake has a population of 8000 people with all the resources and facilities of a typical mining camp.

Extensive research has been conducted on the gold occurrences in Kirkland Lake over the past century, providing a wealth of resources for further investigation (Isplatov et al., 2008).

Site Geology

There are a number of outcroppings (described by Lovell as diabase dikes) throughout the property. The outcroppings have numerous intrusions, contact zones, deformations, and quartz veins. One of those outcroppings (Old Timer's Ridge) has an old pit which has a mineralized quartz-feldspar vein running through it. The diabase is cut with quartz-feldspar porphyry intruded in many locations and there are frequent schistose and foliated gneiss alterations.

Legacy claims were staked during the early days of the gold rush. Historical Plan M-345, available through the OGS Historical Mining Claim Map webpage, provides evidence of these legacy claims. The legacy claims cover the northern half of Lot 11, Concession 3, which is Crown land and underlies the cell fabric of claim 735940. No assessment reports were found for any previous work on these legacy claims. The cell claims comprising the subject property are larger than the legacy claims, with approximately 20 hectares per cell compared to 16 hectares under the old system. The cells are georeferenced to the provincial grid, slightly west of the original surveyed lot lines.

In 1946-1947, approximately 2 km northwest of claim 745860, a prospector from Graff-Kaplan-Hahn: Red Shirt Larder Mines Ltd. dug an exploratory shaft to a depth of around 40 feet. This shaft, commonly referred to as 'Deadman's Mine', reportedly yielded a sample with a gold assay of 5.31 ppm (5310 ppb). Also in proximity, there is a Mineral Deposit Inventory (MDI) less than 2 km east of the project, where Preston Mines undertook a diamond drilling program in the 1950s, revealing a gold occurrence (MDI 42A01SE00005). Lastly there is an MDI right at the edge of the property on West Road, (MDI 42A01SE00080) where a gold clast was uncovered in the 1980's during the Ontario Geological Survey's Kirkland Lake initiatives program [KLIP] reconnaissance till sampling program.

Eby Township had its own gold mine, the Baldwin Mine (1929), located west of the Mile of Gold. The Baldwin Mine is now of renewed interest and is part of Mistango Resource's Kirkland West Gold project, which is contiguous to Lost Hope Mine's Kirkland West Gold project.

Exploration History

Lost Hope Mine Ltd. (MLAS client number 10006315) is the registered claim holder. Marcus Raitanen electronically staked the claims through the Ontario Mining Lands Administration System in 2020 and 2021.

In September 2022, a four-cell claim (653127) and a three-cell claim (735940) were amalgamated to form claim 745860, which is the focus of this assessment work report. Claim 745860 covers an area of approximately 350 acres (or 140 hectares).

Cell IDs 42A 01 C138, C139, C158, and C159 (formerly claim 653127) are located on Crown Lands, except for an encumbrance at the southern extent of C158 and C159, where there is an overlapping patented property, the South Half of Lot 11, Concession 3, with mineral rights known as the 'Wellington Homestead'. This patented property is owned by the author and is shown on the maps herein as the ‘Wellington Homestead’, Richard Wellington being the original title holder. No exploration work has been conducted on these privately held lands.

2020 - initial traverse, Lost Hope Mine Ltd.

2021 - cell claims staked & access trail construction, Lost Hope Mine Ltd.

2022 - claims added, anomalous values of Au assayed, Lost Hope Mine Ltd.

In the 2021 & 2022 exploration season, grab samples were collected at 2 locations, one has a massive sulfide occurrence which assayed subeconomic values of Ni, Zn, Co, Ag, and tin. The second showing (Kulta Maki) explored in late 2022 is a large outcrop of approximately 100m x 150m where assay results revealed anomalous Au values ranging from 50-90ppbs.

The current work was completed under the authority of exploration plan PL-23-000027 in place for bedrock stripping, line cutting, and geophysics.

Field Work & Methodology

The 2023 work program consisted of: line cutting, chaining, and picketing, followed by soil and rock (grab) sampling and a ground based electromagnetic (EM) field survey. Canadian Exploration Services (CXS) was retained to cut the gridlines, their crew was on site the week of September 4th completing the work. Subsequently, 6 days were spent in the field by Lost Hope Mine during 2 visits to Kirkland Lake to perform the EM survey, collect samples and demobilize. A daily log of work undertaken by Lost Hope Mine follows:

dates	activity	details	days	line distance traversed (m)
9/3/2023	travel day	to Kirkland Lake		
9/9/2023	field work	chaining, picketing, and collecting soil samples	1	
9/10/2023	travel day	to Ottawa		
10/10/2023	travel day	to Kirkland Lake		
10/11/2023	field work	EM Survey lines L100 & L200, collected grab samples	1	2050
10/12/2023	field work	EM Survey lines L300 & L400, collected grab samples	1	1800
10/13/2023	field work	EM Survey lines L500 & L650, collected grab samples	1	1800
10/14/2023	field work	EM Survey lines L800 & L900, collected soil samples	1	1800
10/15/2023	field work	Demobilization	1	
10/16/2023	travel day	to Ottawa		
				7450m total

Table 1: daily log of work

The survey was completed in 4 field days, traversing a distance of 7450m in total.



Figure 4: Soil sample SS2301



Figure 5: Soil sample SS2314



Figure 6: Soil sample SS2327



Figure 7: Grab sample GB2322, quartz breccia with pyrite



Figure 8: Typical quartz viens



Figure 9: Chalcopyrite typical, not assayed



Figure 10: Sample GB2336, foliated gneiss



Figure 11: Sample GB2331, quartz w/pink staining



Figure 12: Porphyry, typical, not assayed



Figure 13: Sample GB2325, epidote and hematite

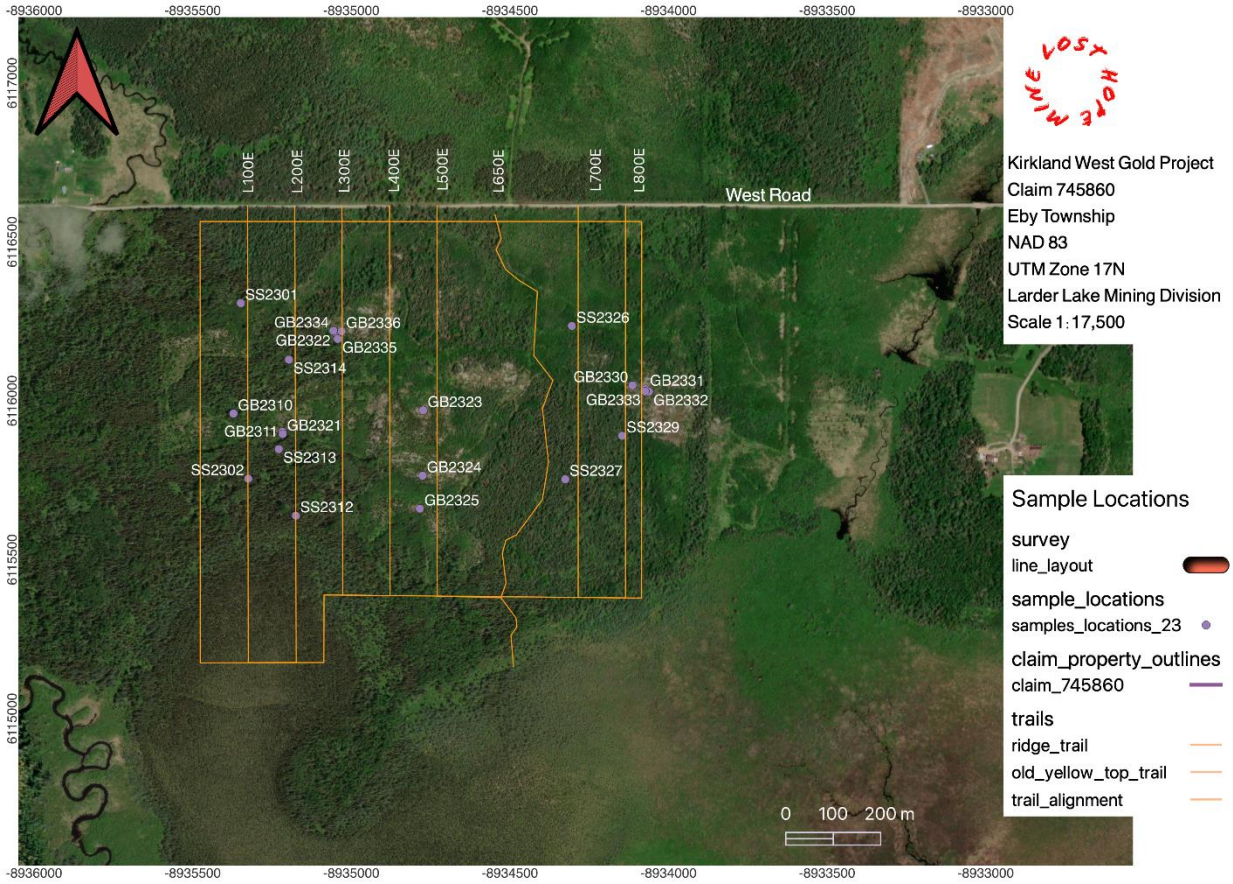


Figure 14: Map of sample locations and line cuts

A total of 22 samples were collected consisting of 8 soil samples and 14 rock (grab) samples. Soil samples were collected using a dutch auger.

Sample	Easting	Northing	Type	Description	Assay
SS2301	554573.61	5322871.23	soil	silty clay - sampled B horizon	U of O
SS2302	554592.76	5322502.82	soil	clayey silt - sampled B horizon	U of O
SS2312	554694.1	5322425.98	soil	stiff clay - sampled B horizon	U of O
SS2313	554656.63	5322565.45	soil	clayey silt - sampled B horizon	U of O
SS2314	554676.30	5322753.38	soil	stiff silty clay - sampled B horizon	U of O
GB2310	554560.31	5322639.23	rock	diabase	Not submitted
GB2311	554663.74	5322601.65	rock	diabase	Not submitted
GB2321	554664.75	5322597.32	rock	hematite with epidote	ALS
GB2322	554772.54	5322812.88	rock	quartz breccia w/pyrite	ALS
GB2323	554960.47	5322649.83	rock	quartz w/hematite	ALS
GB2324	554960.59	5322512.78	rock	quartz w/hematite & chalcopyrite	ALS
GB2325	554955.67	5322443.26	rock	epidote w/hematite	ALS
SS2326	555272.63	5322830.12	soil	stiff clay - sampled B horizon	ALS

SS2327	555261.72	5322507.89	soil	stiff clay - sampled B horizon	ALS
SS2329	555380.66	5322600.41	soil	sandy clay - sampled B horizon	ALS
GB2330	555401.77	5322706.54	rock	quartz - pink stains	Not submitted
GB2331	555429.12	5322698.80	rock	quartz - pink stains	ALS
GB2332	555436.62	5322693.65	rock	hematite - magnetite banding in quartz	ALS
GB2333	555428.57	5322694.24	rock	hematite quartz	ALS
GB2334	554769.53	5322815.07	rock	hematite quartz	ALS
GB2335	554778.86	5322798.16	rock	porphyry	Not submitted
GB2336	554786.76	5322814.02	rock	foliated gneiss	ALS

Table 2: Rock and soil samples with descriptions

The ground-based EM survey was completed in 4 field days using a Geonics EM-16 VLF receiver. Both the tilt angle and quadrature values were recorded along each line at 25m station intervals. The VLF Transmitter Used: NAA-24.0 KHz - Cutler, Maine. Field work and sampling was done by the author.

	Line	L100E		L200E		L300E		L400E		L500E		L650E		L800E		L900E	
Station	Tilt	Quad	Tilt	Quad	Tilt	Quad	Tilt	Quad	Tilt	Quad	Tilt	Quad	Tilt	Quad	Tilt	Quad
0	-5	15	-20	-10	5	-30	55	-25	55	-25	20	-20	0	0	0	0
25	-10	10	-20	-20	5	-40	30	-20	60	-25	60	-25	10	-10	0	0
50	-5	0	5	-30	55	-35	130	-10	50	-20	-30	-20	25	-20	-5	0
75	-10	30	0	-30	100	-25	110	-10	80	-10	-30	0	20	-10	0	-10
100	-15	20	5	-30	60	-40	80	-20	100	-10	-20	-20	25	-20	-10	-10
125	-10	10	45	-20	55	-20	55	-20	90	-20	-30	0	0	-20	-15	0
150	-15	10	50	10	80	-10	50	-20	75	-25	0	0	-40	-15	-5	-5
175	-5	5	60	0	75	-15	45	-20	35	-30	30	0	-35	-10	0	-10
200	-15	15	20	0	35	-20	25	-20	5	-30	40	-10	-5	-20	20	-20
225	-25	-20	0	-30	25	-25	15	-25	0	-35	50	5	55	-10	25	-20
250	-15	20	0	-10	10	-35	0	20	-10	-40	45	0	80	0	20	-20
275	-35	-5	-5	0	-10	-35	-10	-30	-45	-30	40	5	75	5	50	-20
300	0	18	-15	-20	-35	-30	-45	-30	-50	-30	65	0	30	-10	40	0
325	-55	10	-10	-10	55	20	-40	-20	125	20	40	-5	30	-5	50	0
350	-15	10	5	0	40	10	65	15	60	10	30	5	0	0	20	0
375	-25	10	5	20	35	10	35	10	30	0	20	0	0	-10	0	-10
400	-20	10	-5	-10	0	0	20	10	10	0	15	0	-20	-10	-30	0
425	-30	0	-5	0	-10	5	10	0	10	10	5	0	5	0	-35	-20
450	-30	40	-15	5	-10	10	0	0	0	0	-5	0	20	0	-70	-10
475	-10	10	-5	10	-20	0	-40	10	5	5	-25	-10	10	-10	-40	5
500	-25	-20	-60	-20	-40	0	-25	0	-30	0	-10	0	10	5	-25	10
525	-25	10	-70	-10	-40	-5	-45	0	-40	10	-15	15	10	20	-15	15
550	-10	-10	-65	-10	-50	0	-50	0	-35	0	-25	10	-25	0	-20	15
575	-5	10	-30	20	-30	40	-35	10	-90	0	-35	10	-40	0	-15	20
600	-5	-40	-25	15	-85	0	0	35	-20	15	-25	40	-20	20	-5	15
625	-20	-40	-20	20	-110	0	-55	20	-10	40	-10	30	-5	10	-5	10
650	-10	20	-15	20	-55	15	-90	10	-70	10	0	40	-15	10	0	10
675	-20	10	-5	0	-30	30	-110	10	-50	20	15	25	0	20	0	10
700	10	10	-20	10	-5	25	-55	20	-60	30	80	30	5	10	0	0
725	-25	-10	-10	-10	5	20	-20	30	-50	30	30	35	10	0	5	0
750	-30	0	-10	-10	5	5	-20	25	-40	25	-5	30	5	0	0	0
775	-15	-10	10	-10	10	10	-15	20	-20	30	0	40	5	5	5	0
800	-25	0	0	0	0	0	-15	20	-5	15	-20	35	5	0	0	0
825	-30	5	-10	-30												
850	-35	5	5	10												
875	-35	-30	5	-10												
900	-35	-10	0	10												
925	-25	0	-10	-10												

Table 3: VLF readings

Findings

A total of 22 samples were collected consisting of 8 soil samples and 14 rock (grab) samples. 13 samples were submitted to ALS laboratories in Sudbury for multi element analysis using ICP mass spectrometry.

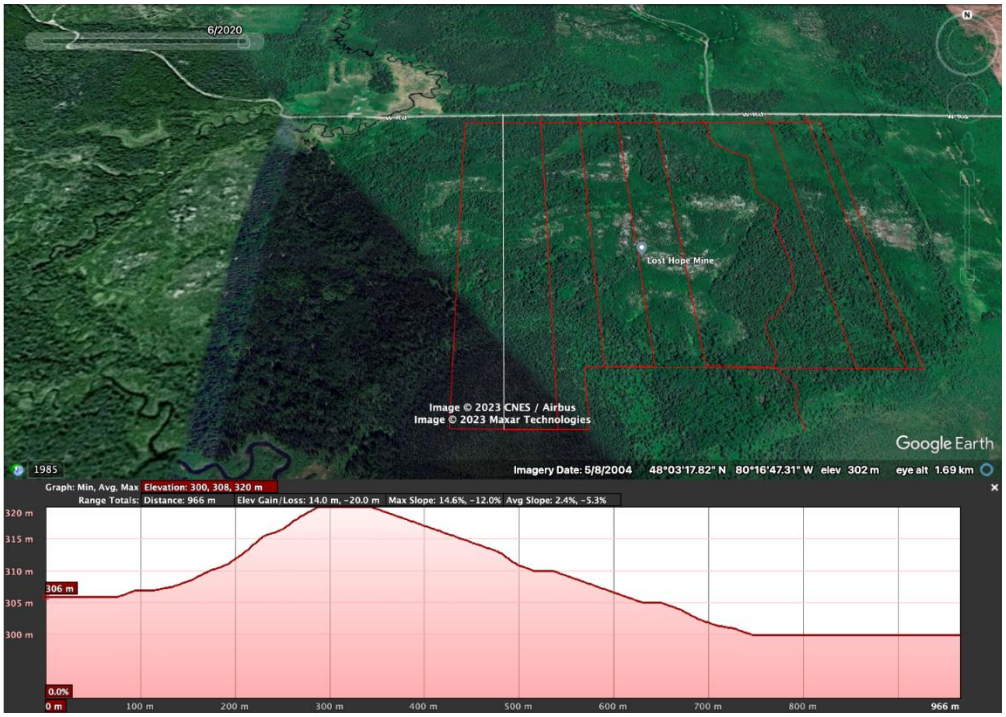
Another 5 (soil) samples were submitted to the University of Ottawa's Geochemistry Laboratory with results still pending.

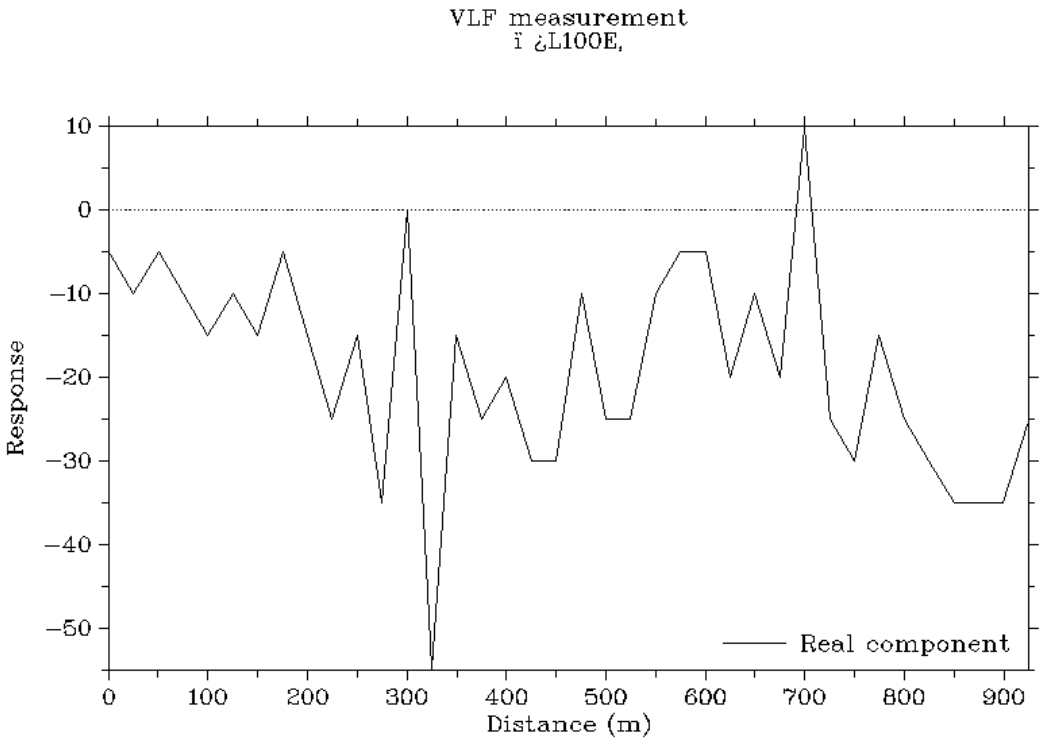
SAMPLE	Ag	Al	As	Au	Co	Cu	Fe	Mo	Ni	Pb	Sn	V	Zn
Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
GB2331	0.1	0.3	0.6	<0.02	2	10.4	1.4	1.76	2.7	2.7	<0.2	18	15
GB2332	0.02	0.1	0.8	<0.02	2.6	11.8	1.9	3.45	3.1	0.8	0.2	20	8
GB2333	0.05	0.5	0.3	<0.02	12.2	83.8	4.8	1.5	2.2	1.3	0.5	73	38
GB2334	0.17	1.3	0.7	0.02	18	76	3.9	2.19	16.3	2.4	0.5	85	113
GB2336	0.03	1.1	0.1	<0.02	14.4	39.4	2.2	10.9	29.6	1.8	0.4	64	39
GB2321	0.04	0.8	0.6	<0.02	1.7	32.5	4.9	1.4	2.1	1.5	0.5	42	24
GB2322	0.11	0.7	1	<0.02	6.2	463	1.7	1.91	19.8	3.9	0.4	39	36
GB2323	0.06	0.5	0.4	<0.02	5.2	66.2	2.8	1.64	1.2	1.5	0.4	13	26
GB2324	0.08	1	0.4	<0.02	23.5	112	7.5	0.6	18.8	1.1	0.4	216	67
GB2325	0.02	1.2	0.2	<0.02	11.7	44.8	1.9	1.27	13.2	1	0.3	54	39
SS2326	1.56	2	2.1	<0.02	10.3	35.1	2.3	0.18	36.4	7.7	0.6	39	54
SS2327	0.81	1.5	1	<0.02	7.7	22.6	1.7	0.2	23.8	5.8	0.5	33	41
SS2329	0.11	1.6	0.8	<0.02	7.2	31.2	1.5	0.22	24.8	5.3	0.5	27	27

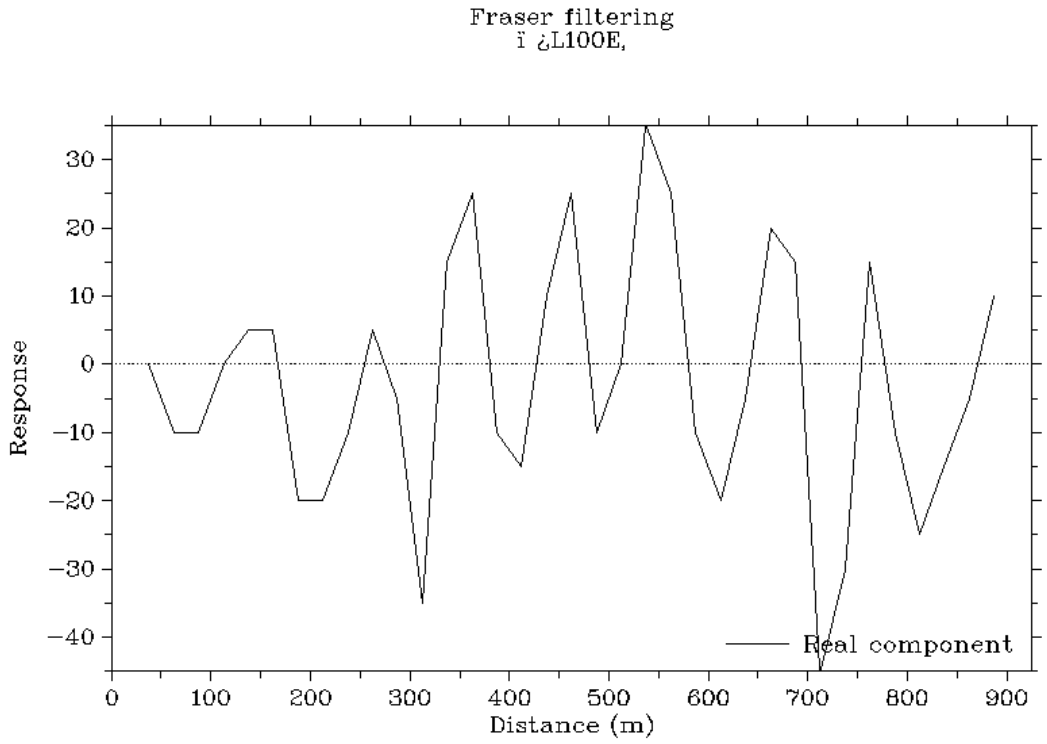
Table 4: Summary of assay results

The EM survey field data was filtered using KHFFILT software. Both Fraser & Karous-Hjelt filters were utilized to produce the following charts. The charts were compared to both the elevation profiles (from Google Earth) along with the field notes.

Figure 15: Line L100 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data






Fraser filtering
ï ¿L100E,
Response
30
20
10
0
−10
−20
−30
−40
0
100
200
300
400
500
600
700
800
900
Distance (m)
Real component

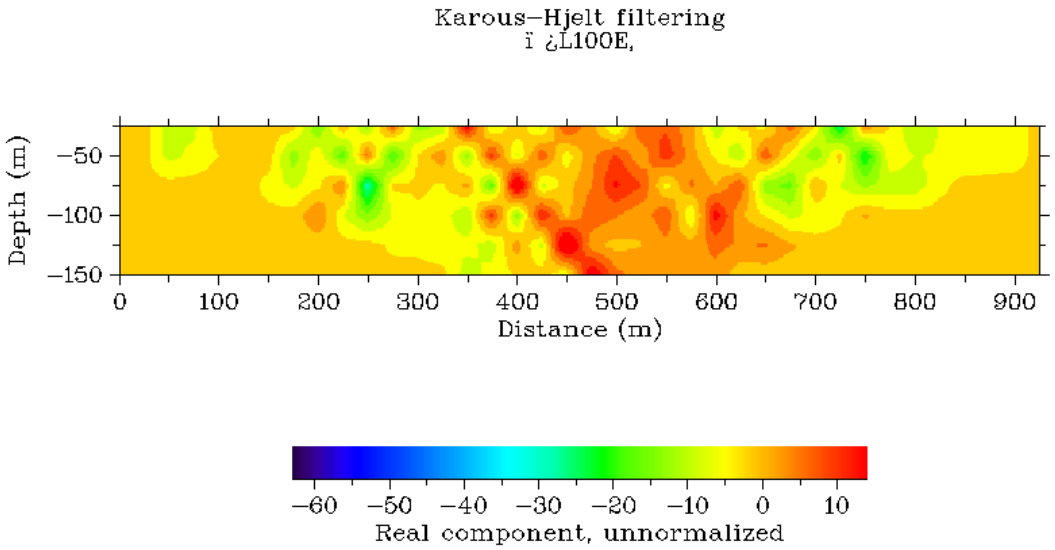
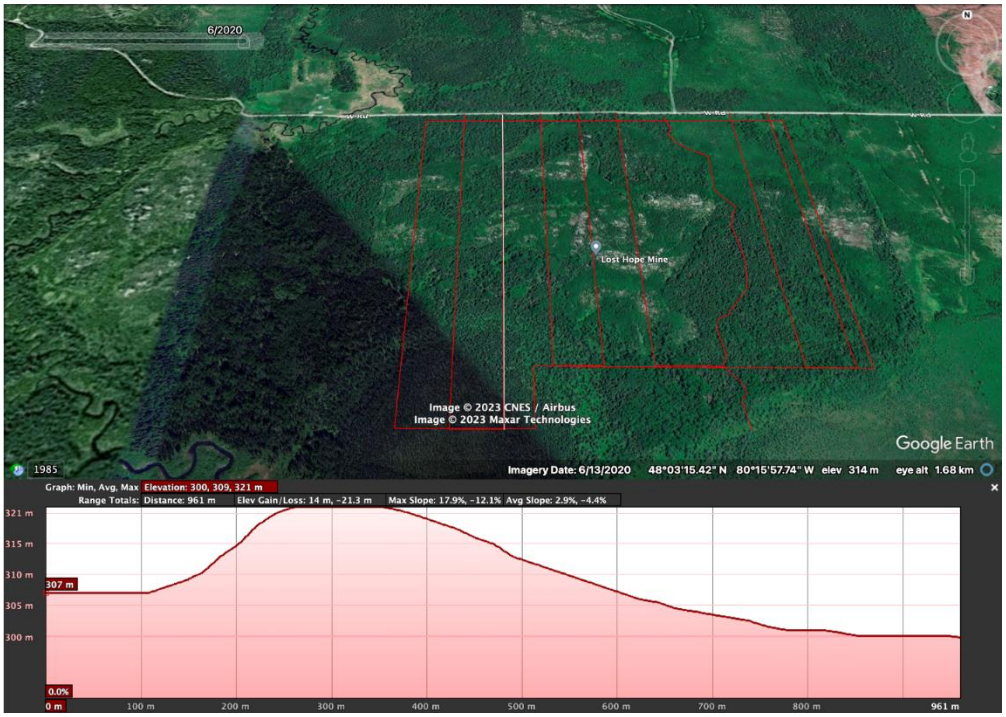
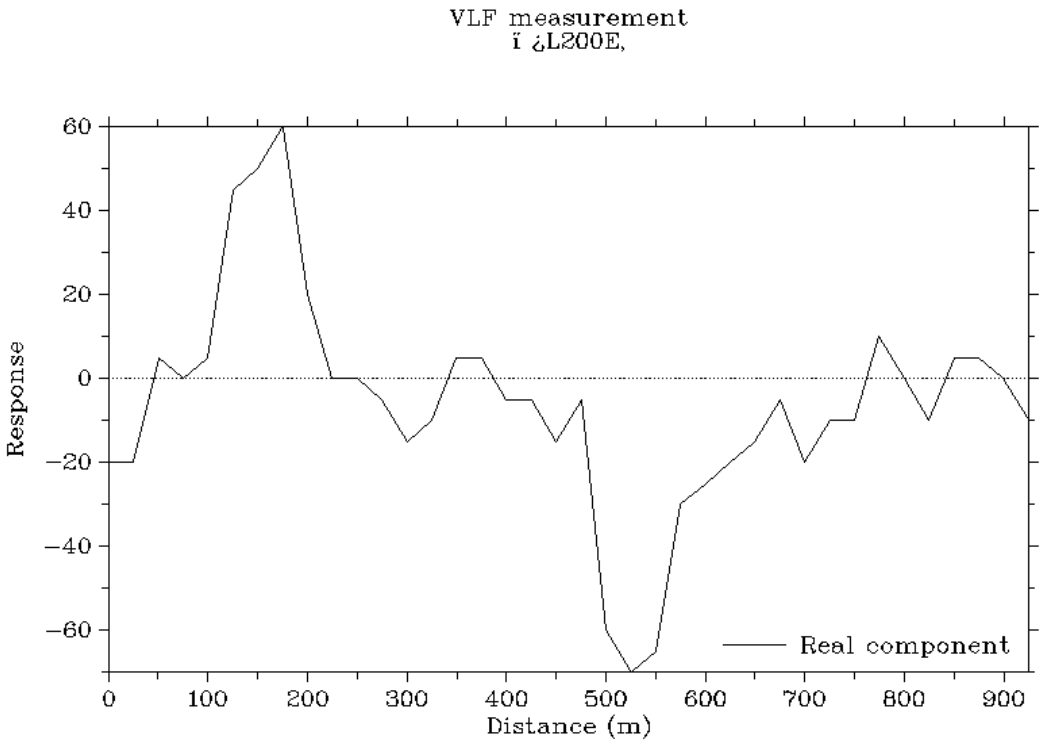
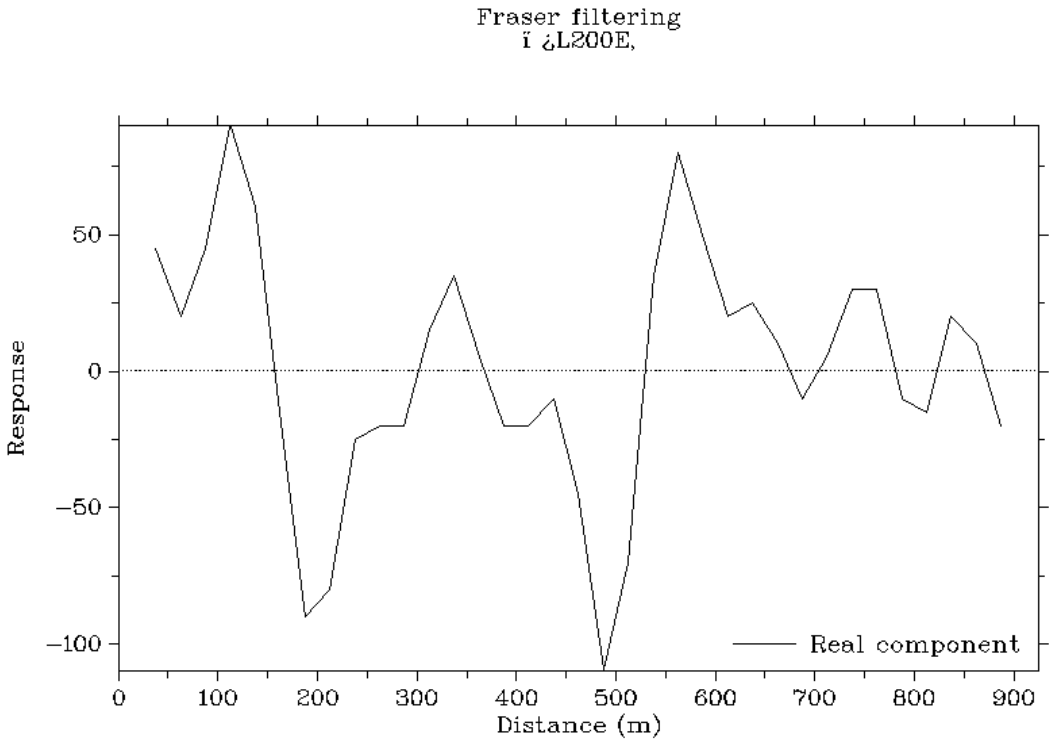

Karous−Hjelt filtering
ï ¿L100E,
Depth (m)
−50
−100
−150
0
100
200
300
400
500
600
700
800
900
Distance (m)
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

Figure 16: Line L200 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data






Fraser filtering
ï ¿L200E,
Response
50
0
−50
−100
Real component
0
100
200
300
400
500
600
700
800
900
Distance (m)

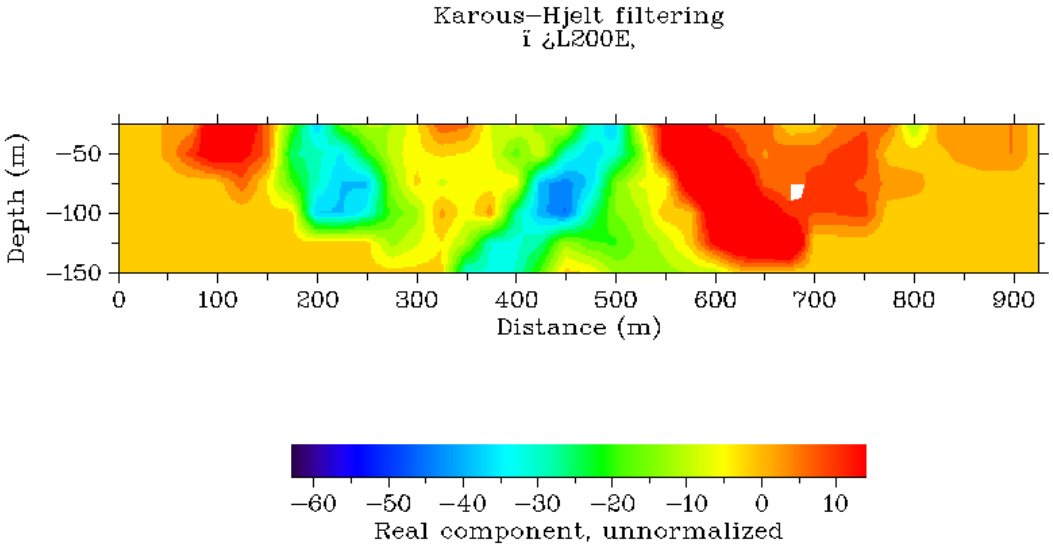
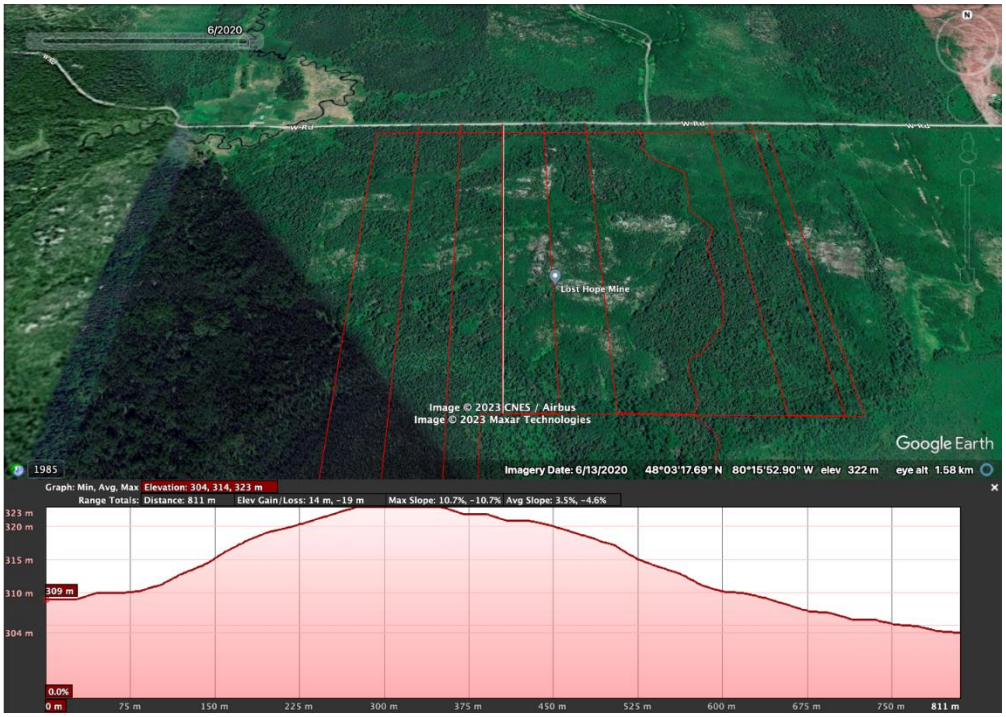
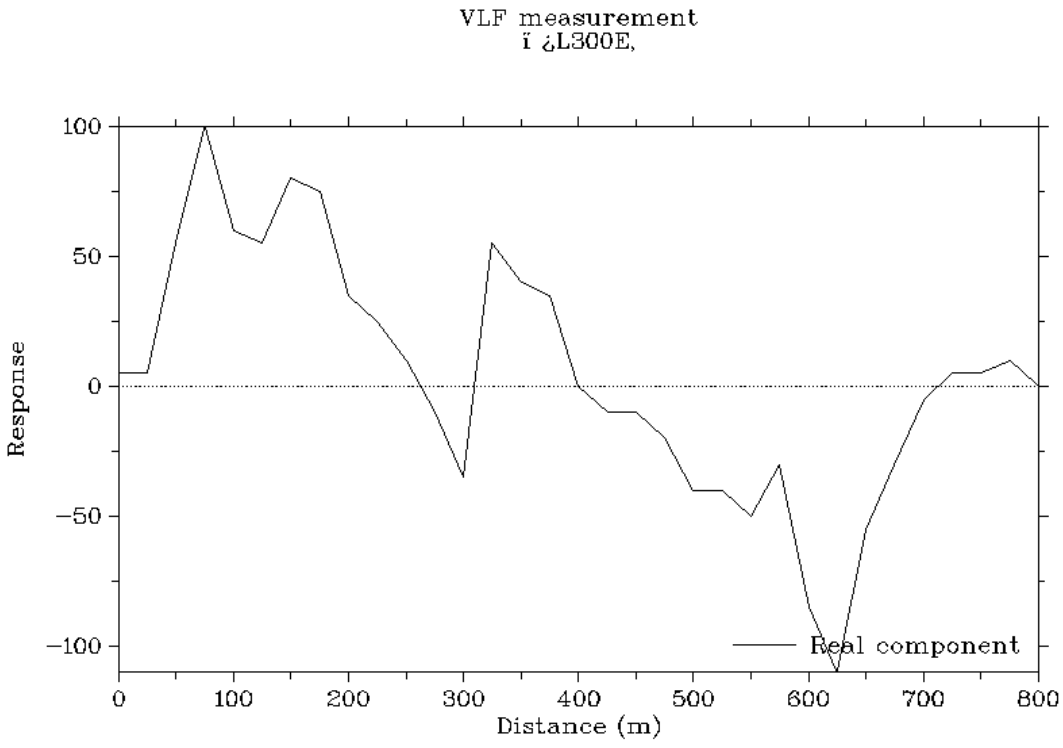
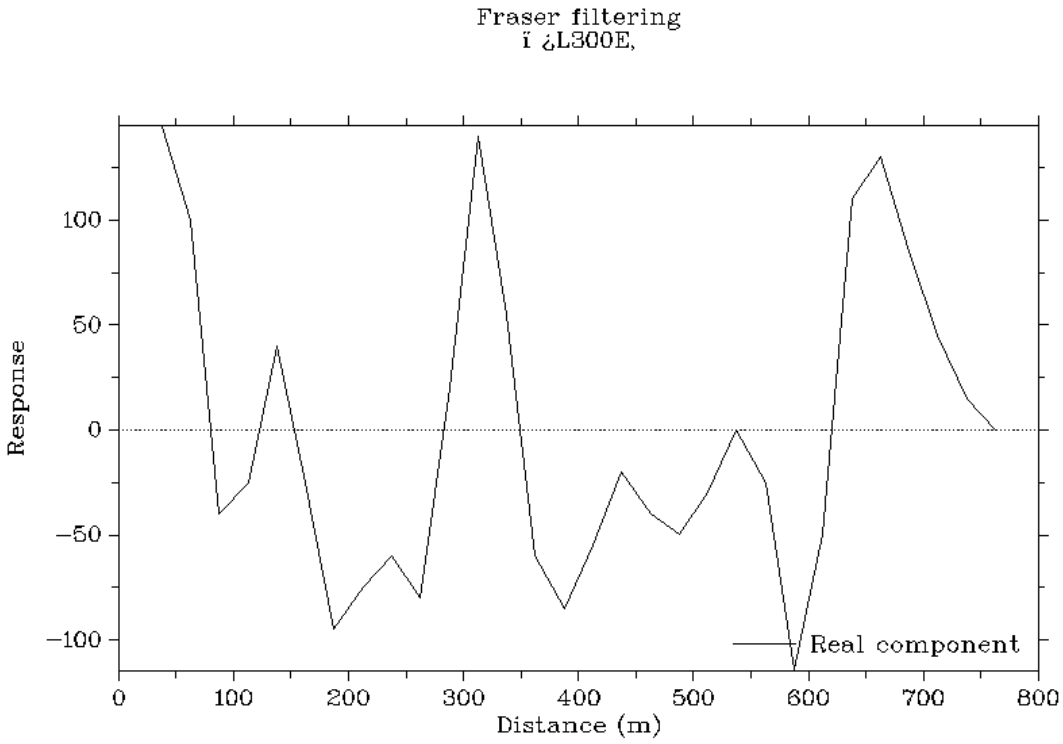
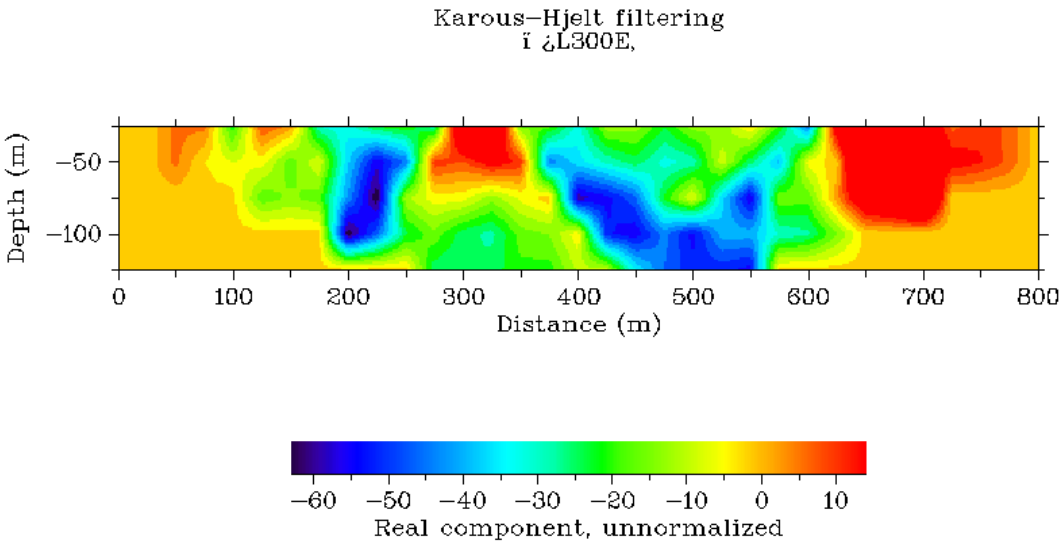

Karous−Hjelt filtering
ï ¿L200E,
Depth (m)
−50
−100
−150
0
100
200
300
400
500
600
700
800
900
Distance (m)
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

Figure 17: Line L300 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data



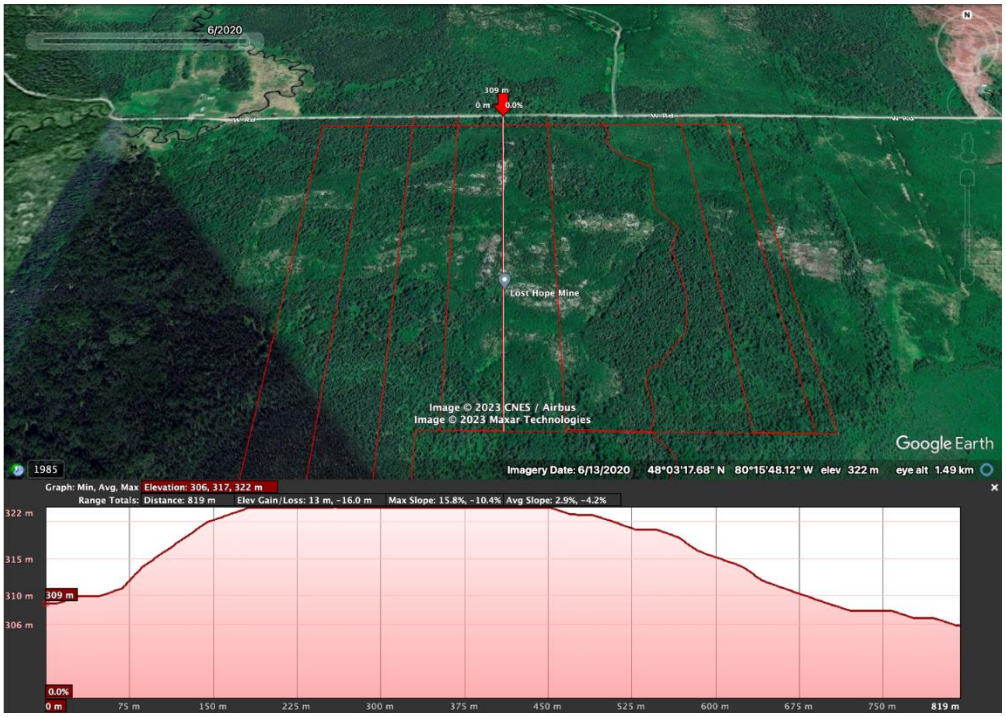


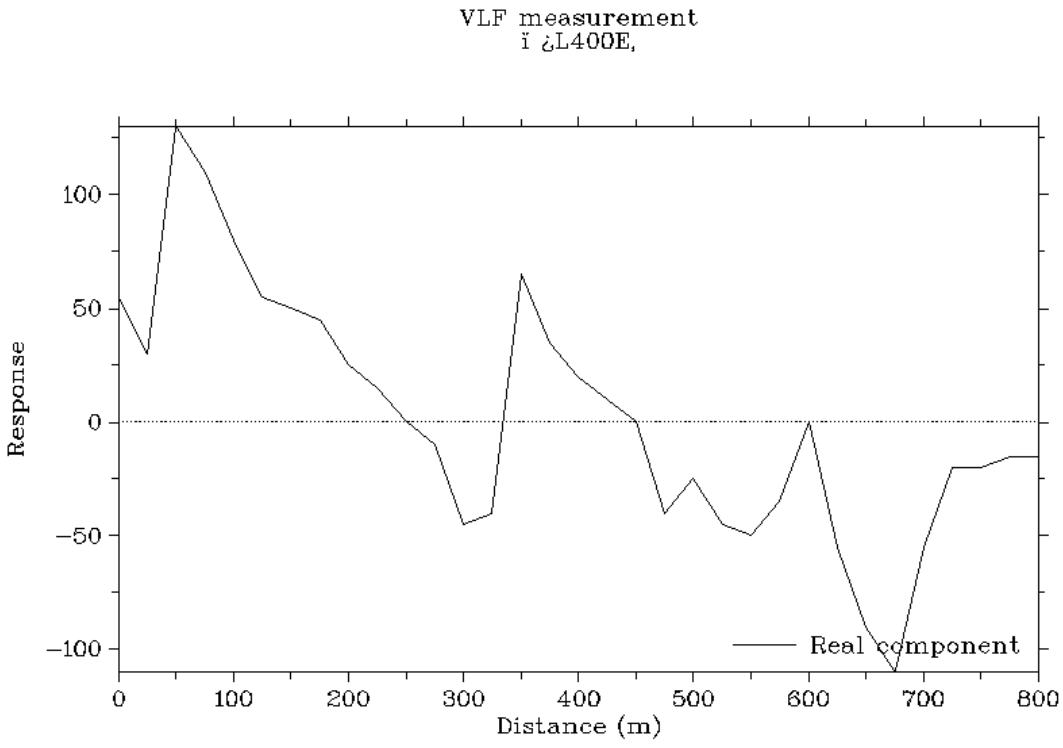

Fraser filtering
ï ¿L300E.
Response
100
50
0
−50
−100
Real component
0
100
200
300
400
500
600
700
800
Distance (m)

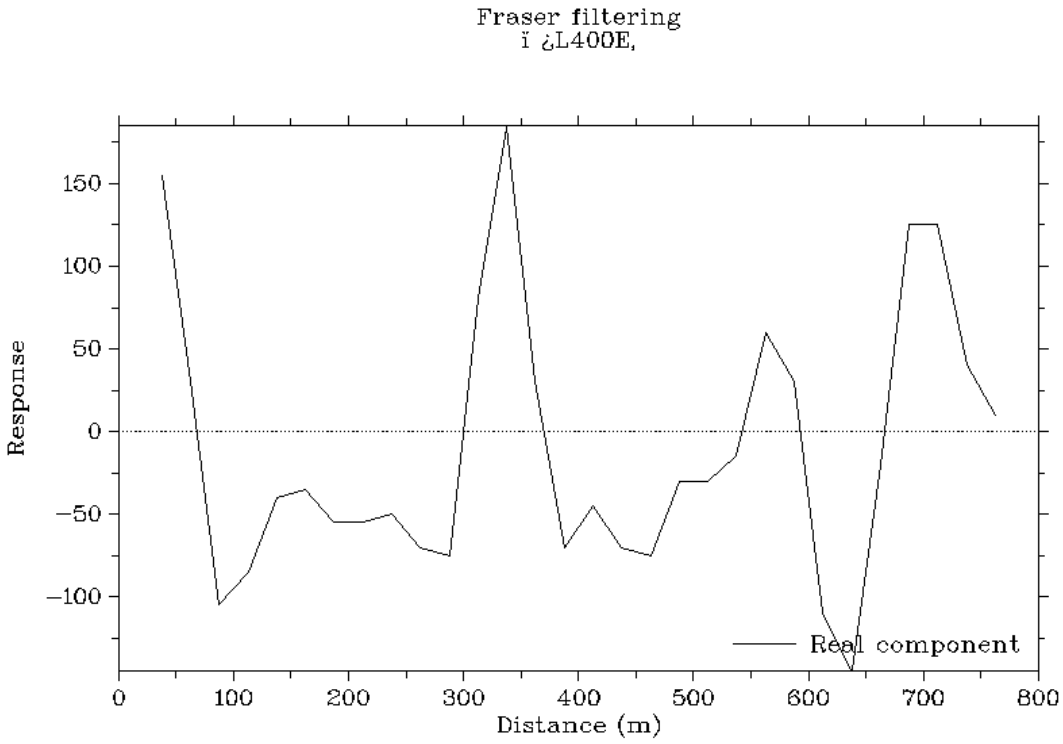

Karous−Hjelt filtering
ï ¿L300E.
Depth (m)
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)

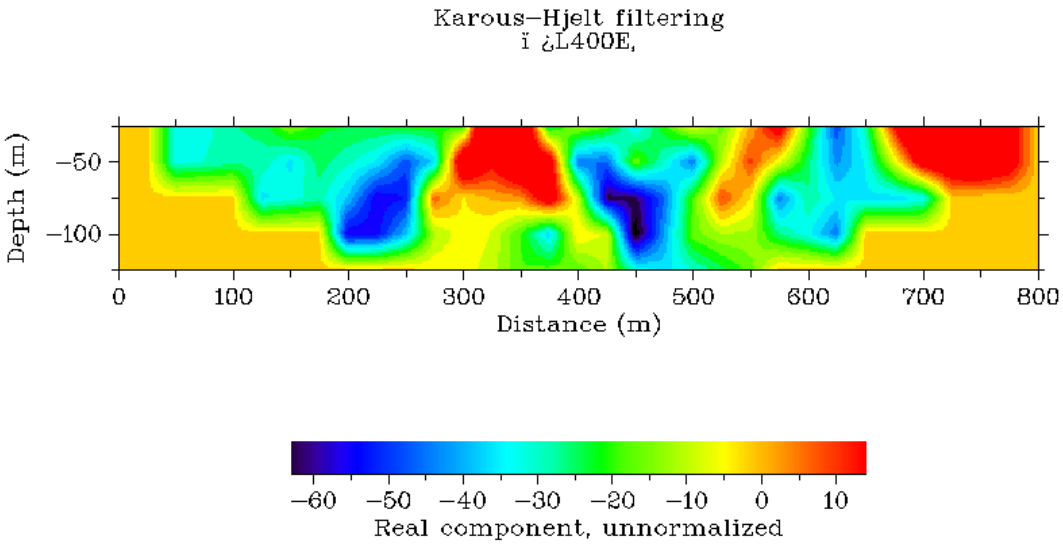
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

Figure 18: Line L400 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data



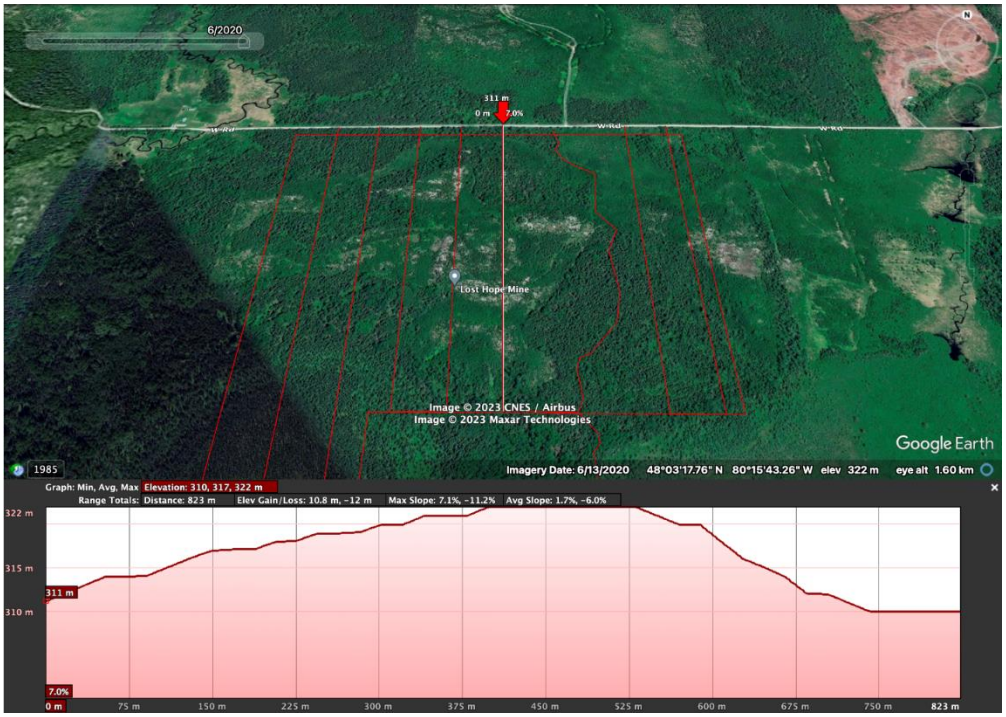



Fraser filtering
ï ¿L400E,
Response
150
100
50
0
−50
−100
Real component
0
100
200
300
400
500
600
700
800
Distance (m)

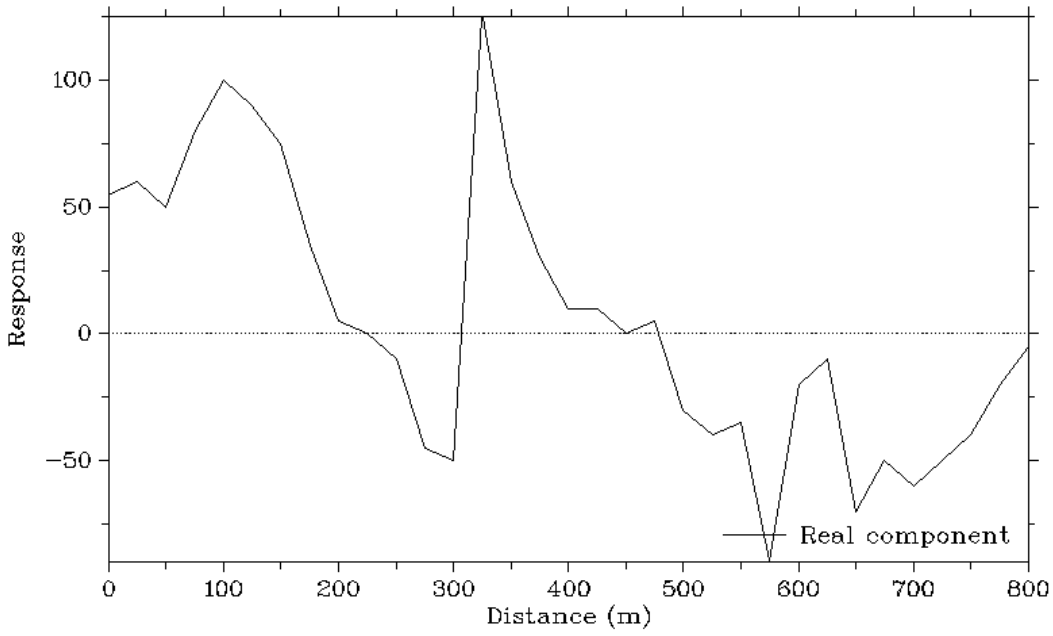

Karous−Hjelt filtering
ï ¿L400E,
Depth (m)
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)

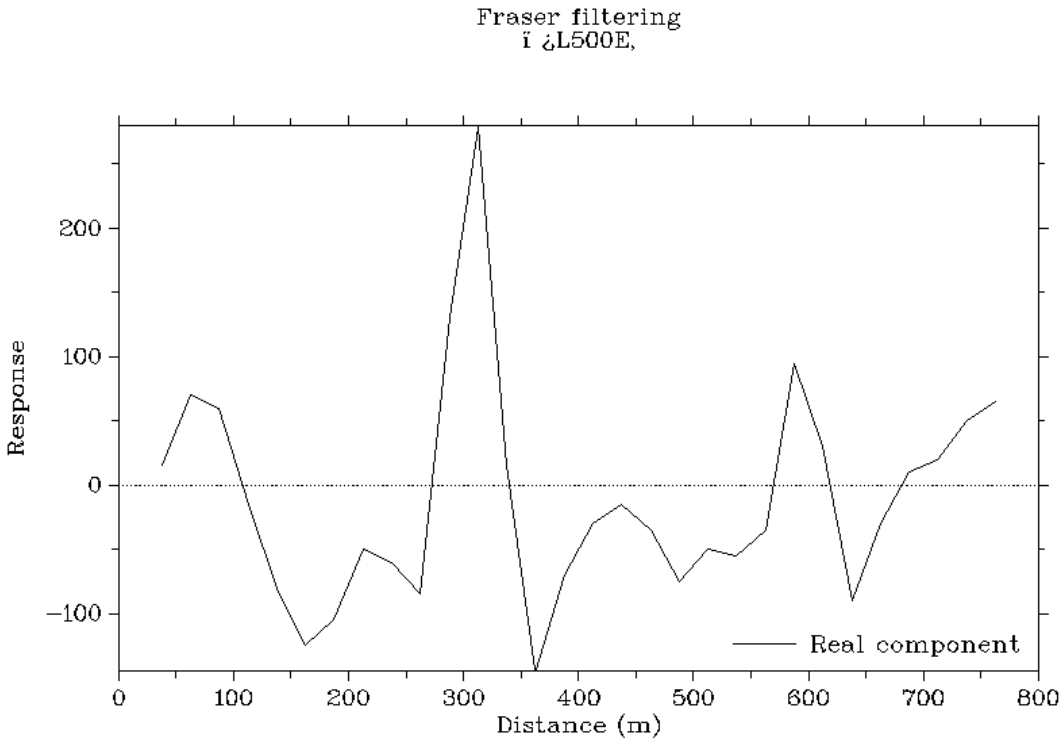
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

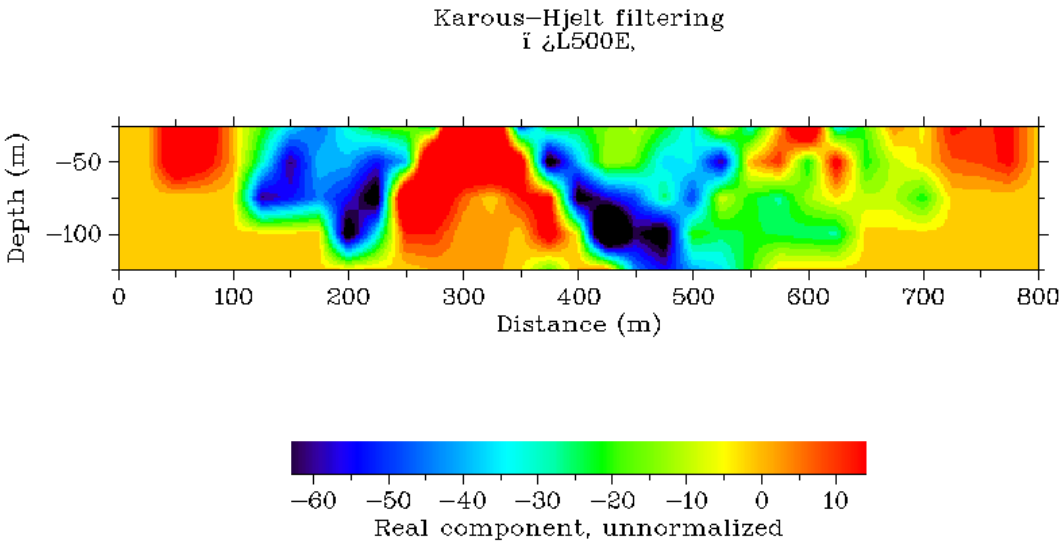
Figure 19: Line L500 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data



VLF measurement
ï ¿L500E,

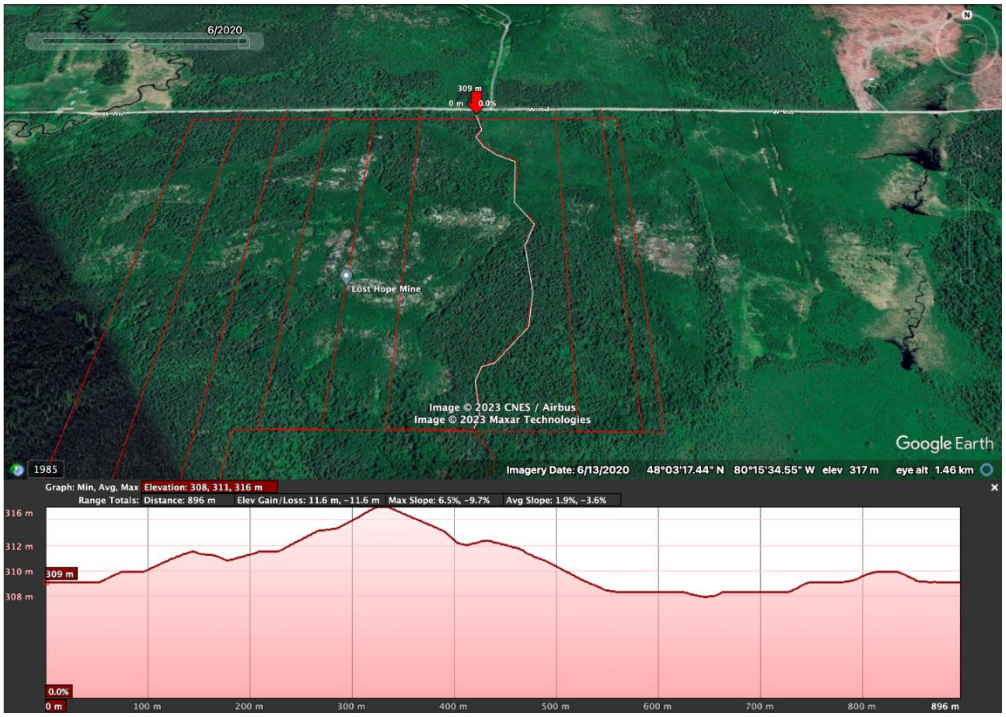



Fraser filtering
ï ¿L500E.
Response
200
100
0
−100
Real component
0
100
200
300
400
500
600
700
800
Distance (m)

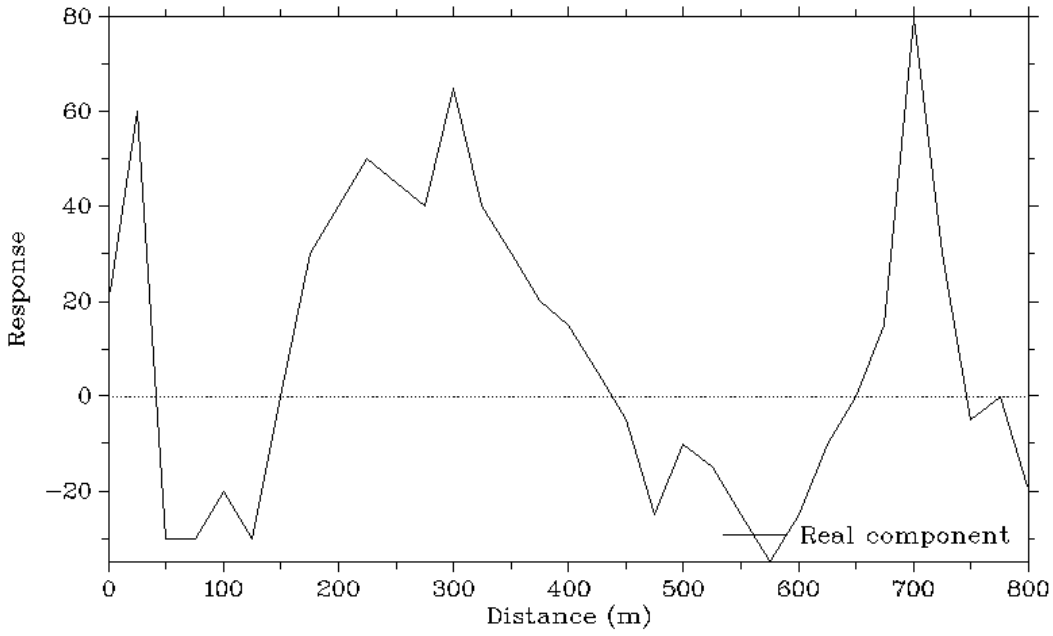

Karous−Hjelt filtering
ï ¿L500E.
Depth (m)
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)

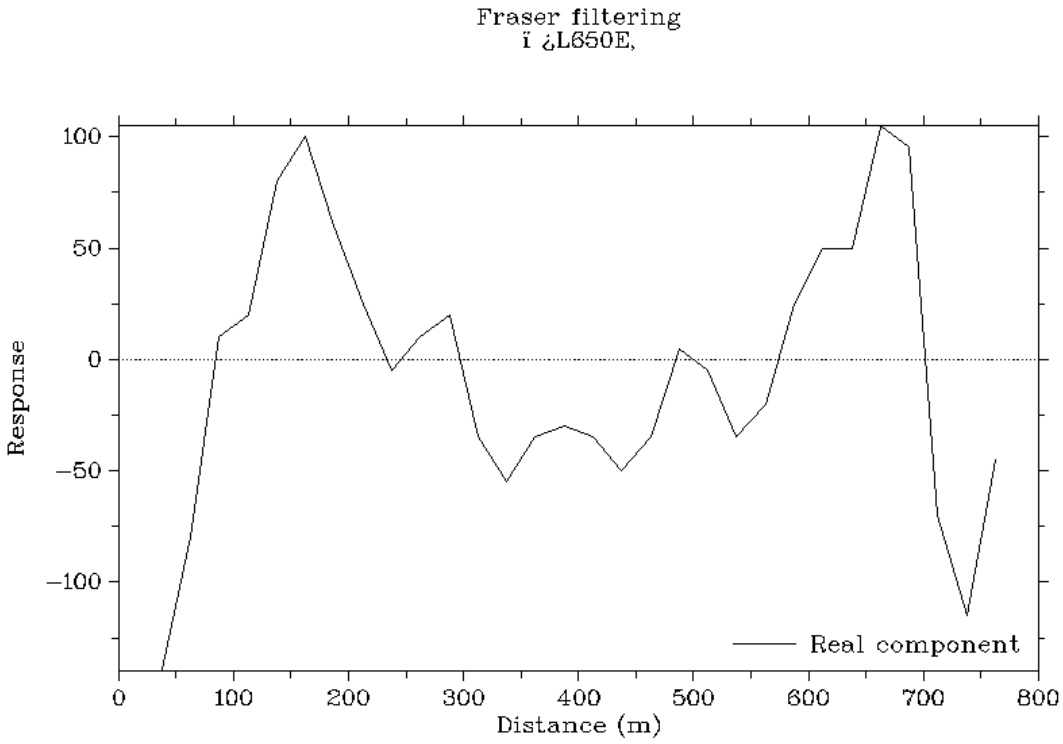
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

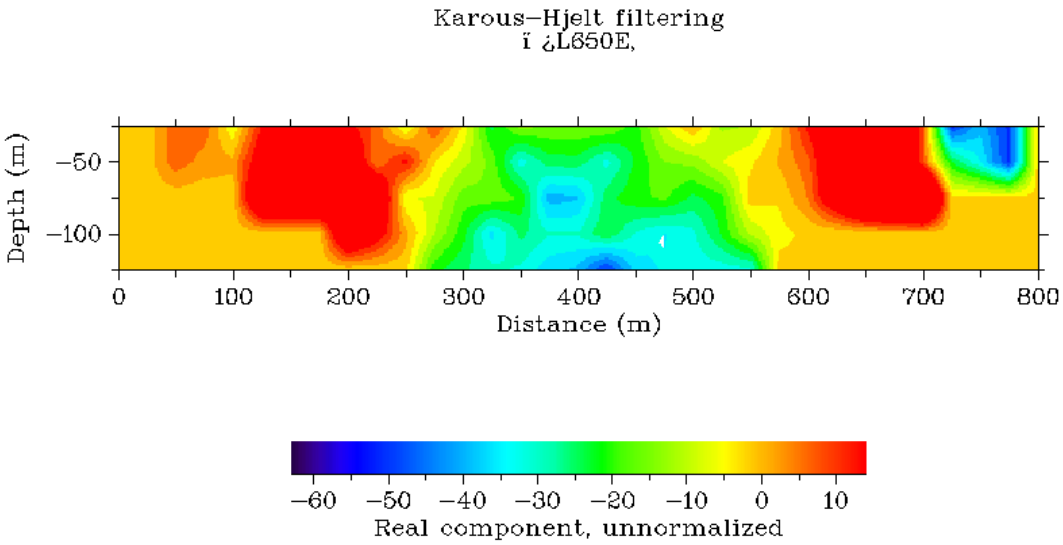
Figure 20: Line L650 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data



VLF measurement
ï ¿L650E,

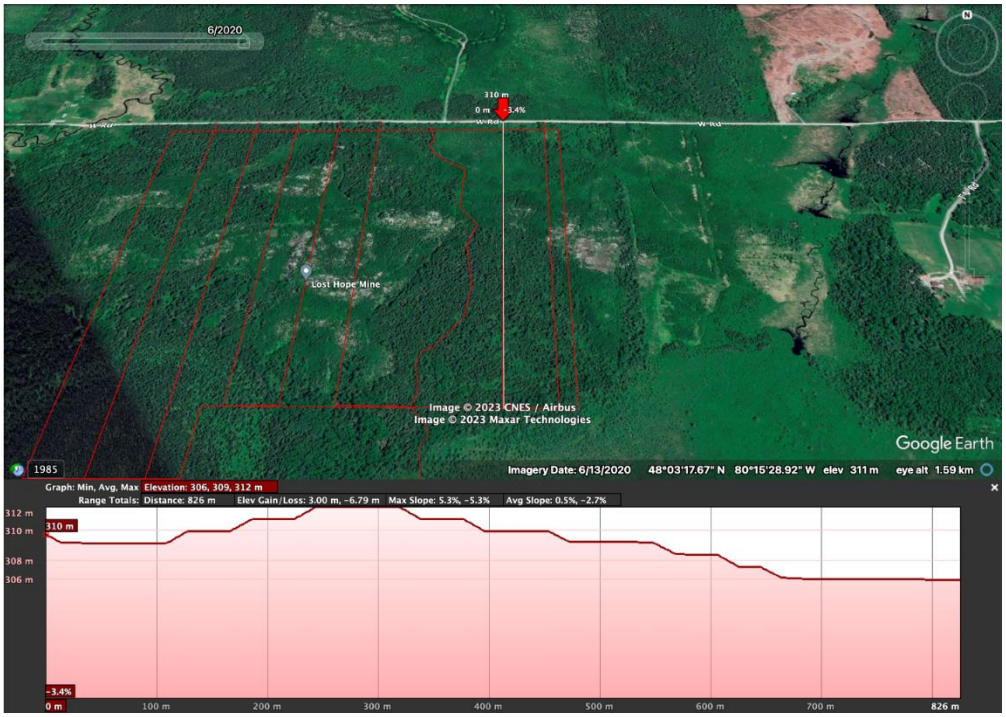


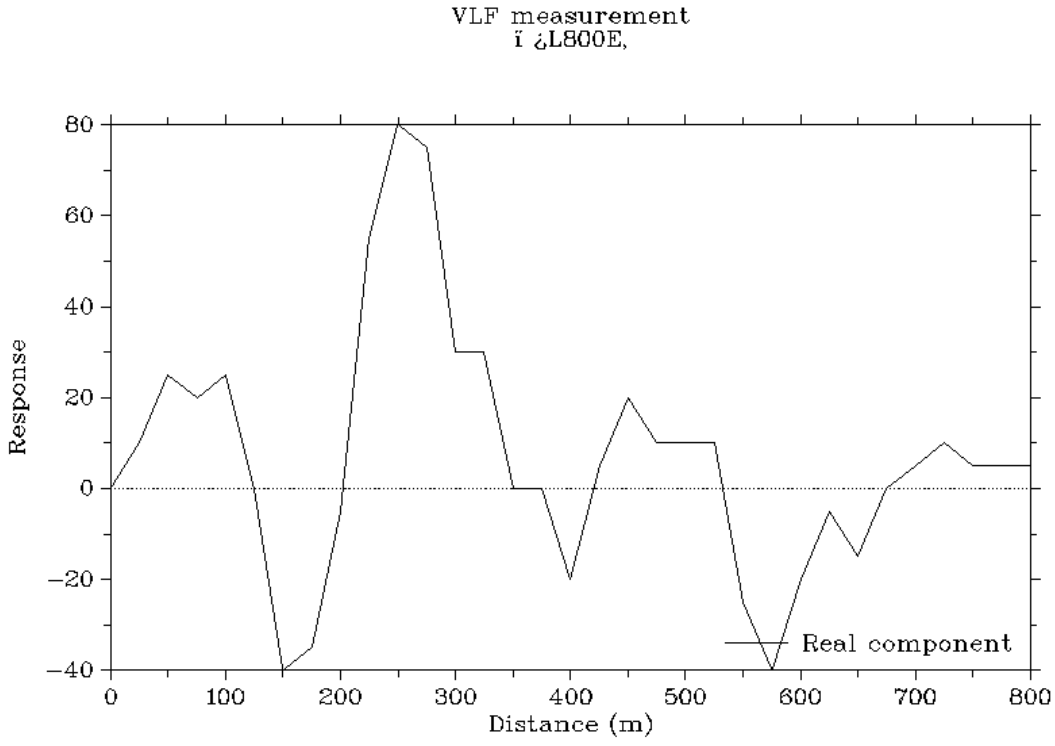

Fraser filtering
ï ¿L650E,
Response
100
50
0
−50
−100
Real component
0
100
200
300
400
500
600
700
800
Distance (m)

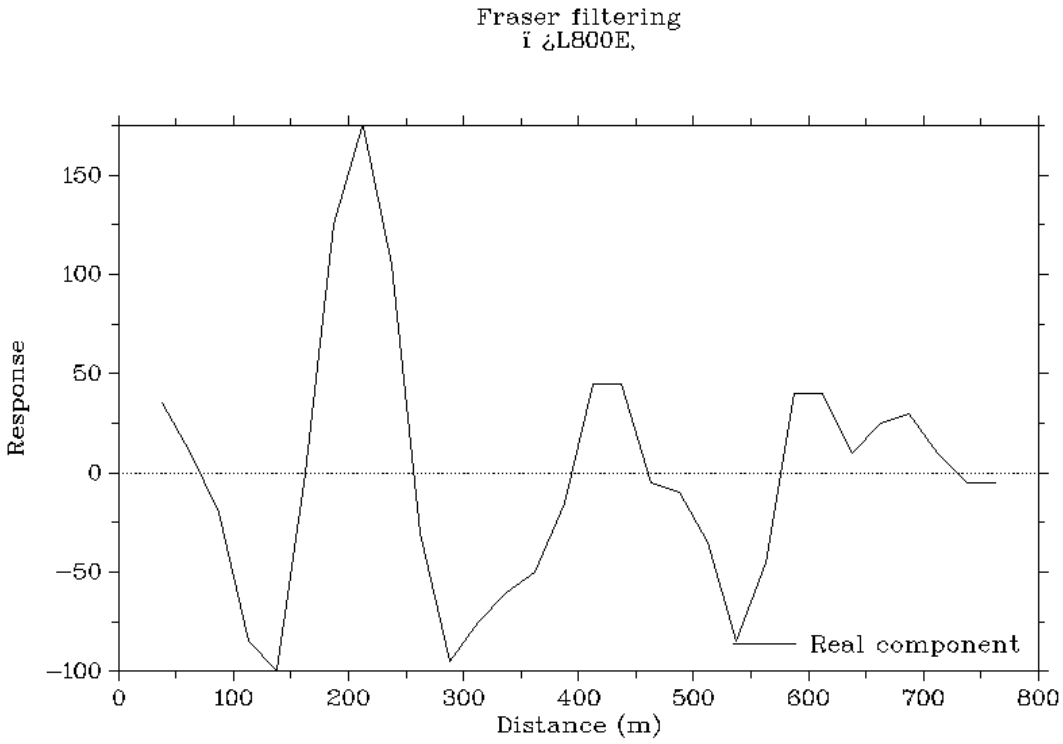

Karous−Hjelt filtering
ï ¿L650E,
Depth (m)
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)

−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

Figure 21: Line L800 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data






Fraser filtering
ï ¿L800E.
Response
150
100
50
0
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)
Real component

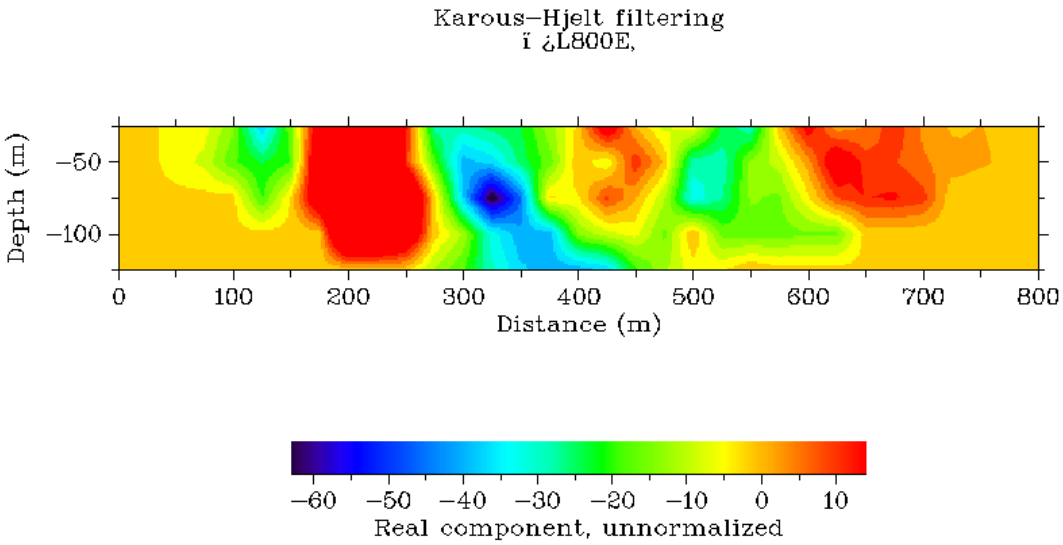
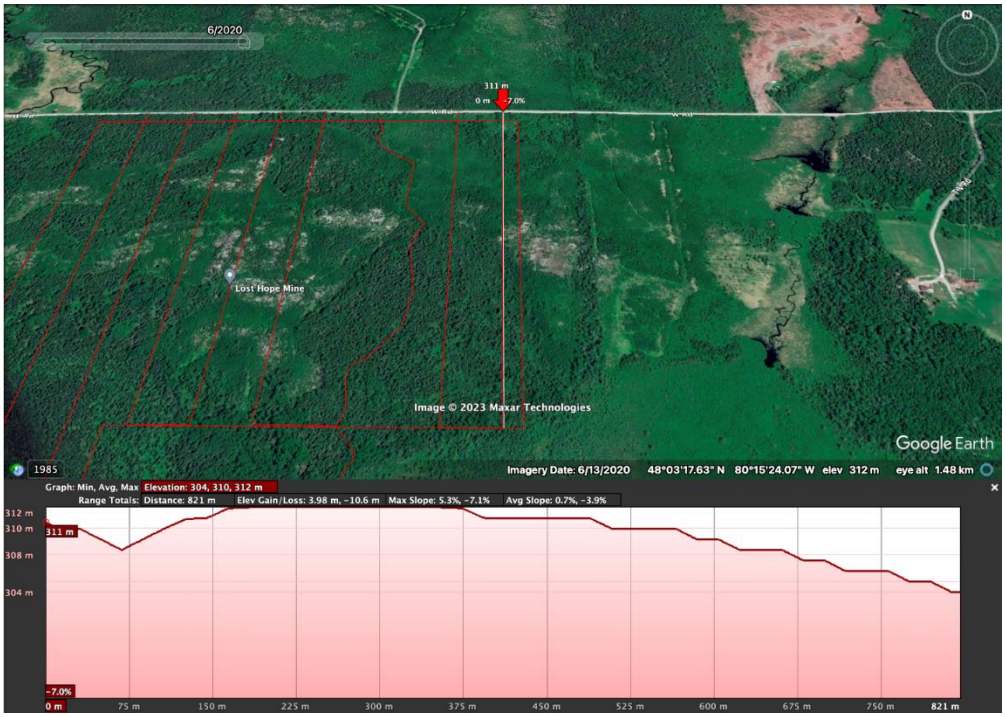
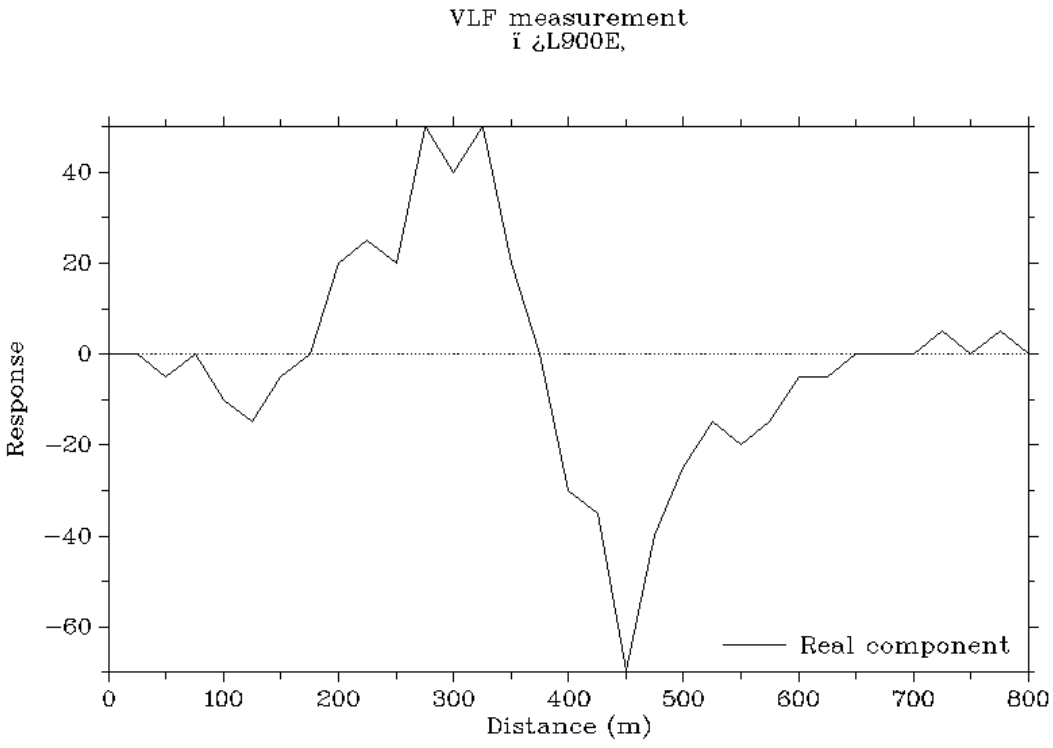
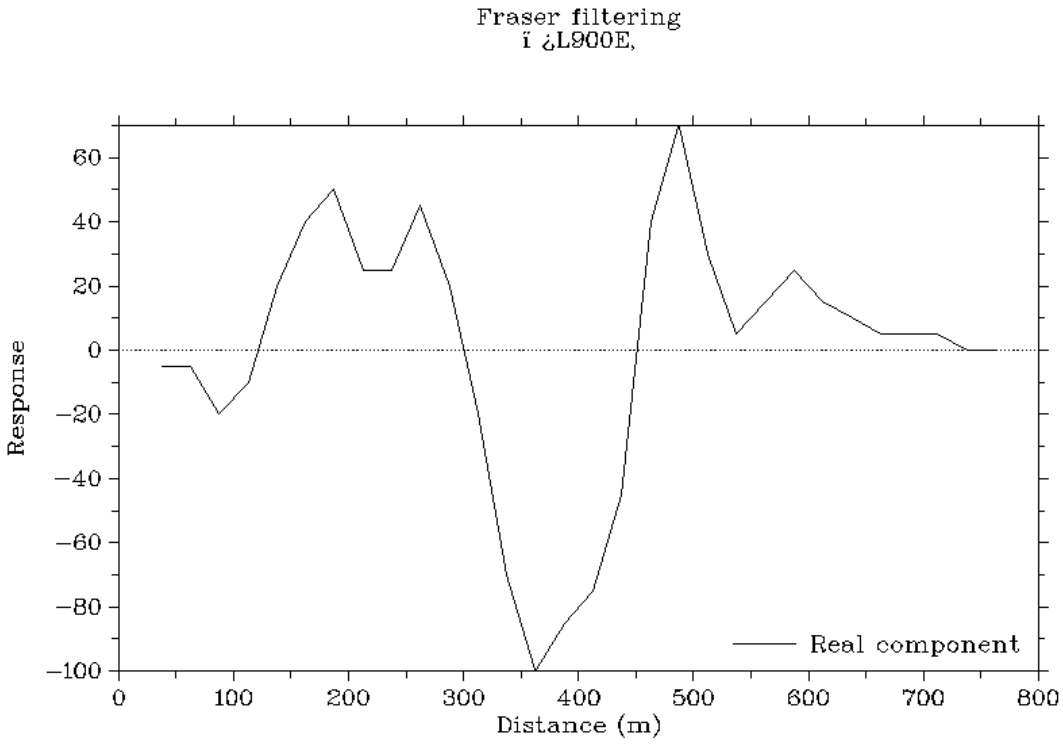
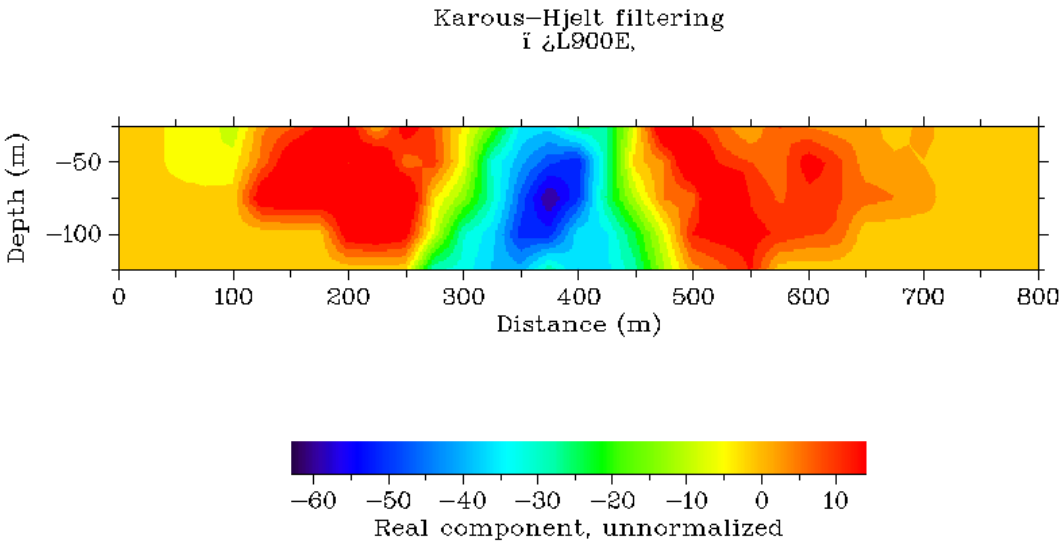

Karous−Hjelt filtering
ï ¿L800E.
Depth (m)
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

Figure 22: Line L900 Google Earth Elevation Profile, VLF measured data, Fraser filtered data, and Karous-Hjelt filtered data






Fraser filtering
ï ¿L900E.
Response
60
40
20
0
−20
−40
−60
−80
−100
0
100
200
300
400
500
600
700
800
Distance (m)
Real component


Karous−Hjelt filtering
ï ¿L900E.
Depth (m)
−50
−100
0
100
200
300
400
500
600
700
800
Distance (m)
−60
−50
−40
−30
−20
−10
0
10
Real component, unnormalized

Recommendations

Sample GB2322 revealed elevated but anomalous values of Cu at 463ppm & sample SS2326 assayed at 1.56ppm of Ag. Additionally, the EM survey detected geophysical anomalies underlying the diabase dykes that crosscut the property. These results suggest that further investigation is warranted as follows:

1. Geological mapping and sampling along with a soil geochemistry analysis is recommended in areas where the EM survey anomalies suggest near surface features.

2. Enhancement of the geophysical data with a follow up magnetic and/or resistivity survey.

Exploration plan PL-23-000027 provides for bedrock stripping at 2 exposed locations, one on Old Timer's Ridge and another on Kulta Maki. To undertake bedrock stripping at the location GB2322 was sampled (on line L200E), an updated exploration plan will need to be submitted.

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Appendix A – Statement of Qualifications

I, Marcus Raitanen, of Ottawa, Ontario, confirm the following:

I am a Certified Engineering Technologist (C.E.T.) affiliated with the Ontario Association of Engineering Technicians and Technologists (OACETT). Since graduating from Loyalist College in 1998, I have worked as an engineering technologist, continuously updating my knowledge through professional development courses and annual ethics training.

In addition, I hold a license as a Prospector in the Province of Ontario and have completed the Mining Act Awareness Program (MAAP, 2021). My practical knowledge and skills in prospecting were acquired through hands-on experience working for the original Lost Hope Mine partners beginning in the 1980s.

Currently, I am employed by Lost Hope Mine Ltd., headquartered in Ottawa, ON, and hold a vested interest in the subject property. I have personally supervised or completed the work described herein.

As the author of this report on the Kirkland West Gold project, I affirm that its contents are complete and correct to the best of my knowledge.

M A Raitanen

Marcus A. Raitanen, C.E.T.,
Ottawa, ON



Appendix B – Software Used

Mapping – QGIS version 3.16.11 'Hannover', Windows 10, macOS Ventura 13.2

GPS field data – Tomstrails GPS UTM, Google Maps, Metadata View, iOS 16.6.1

EM Filtering - KHFFILT Version 1.1a Markku Pirttijärvi, Windows 10

Report writing – MS Word, One Note, Office Professional 2013, Windows 10

Data collection – MS Excel, Office Professional 2013, Windows 10

Photography – Camera, iPhone SE 2020, iOS 16.6.1

Appendix C - Assay Results

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Finalized Date: 16-NOV-2023
Account: LHMECEJX

CERTIFICATE SD23296448

Project: KL West Gold Project

This report is for 3 samples of Soil submitted to our lab in Sudbury, ON, Canada on 16-OCT-2023.

The following have access to data associated with this certificate:

MARCUS RAITANEN		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Saa Traxler, Director, North Vancouver Operations

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296448

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
SS2326		0.63	1.56	2.03	2.1	<0.02	<10	110	0.61	0.13	0.71	0.11	56.8	10.3	65	1.32
SS2327		0.78	0.81	1.50	1.0	<0.02	<10	70	0.35	0.11	0.36	0.13	31.7	7.7	47	1.13
SS2329		0.77	0.11	1.56	0.8	<0.02	<10	130	0.40	0.09	0.32	0.05	37.9	7.2	47	1.06

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296448

Sample Description	Method Analyte Units LOD	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
SS2326		35.1	2.29	6.27	0.08	0.17	0.09	0.022	0.17	31.9	23.2	0.72	335	0.18	0.02	1.95
SS2327		22.6	1.71	5.44	0.05	0.03	0.02	0.016	0.10	16.5	18.4	0.51	262	0.20	0.01	1.48
SS2329		31.2	1.51	4.66	0.06	0.02	0.02	0.017	0.06	20.9	16.4	0.46	158	0.22	0.01	1.24

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296448

Sample Description	Method Analyte Units LOD	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
SS2326		36.4	770	7.7	21.6	0.001	0.04	0.05	5.4	0.6	0.6	26.7	<0.01	0.01	4.4	0.099
SS2327		23.8	470	5.8	17.6	<0.001	0.01	<0.05	3.2	0.2	0.5	18.4	<0.01	<0.01	2.2	0.087
SS2329		24.8	310	5.3	12.3	<0.001	0.01	<0.05	3.5	<0.2	0.5	17.0	<0.01	<0.01	1.8	0.075

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296448

Sample Description	Method Analyte Units LOD	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
SS2326		0.15	2.14	39	0.11	12.75	54	6.4
SS2327		0.09	0.68	33	0.07	5.29	41	1.2
SS2329		0.08	0.65	27	0.06	5.78	27	0.8

***** See Appendix Page for comments regarding this certificate *****

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To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Finalized Date: 16-NOV-2023
Account: LHMECEJX

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296448

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME-MS41

ALS Canada Ltd.
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To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Finalized Date: 31-OCT-2023
This copy reported on
1-NOV-2023
Account: LHMECEJX

CERTIFICATE SD23296462

Project: KL West Gold Project

This report is for 10 samples of Rock submitted to our lab in Sudbury, ON, Canada on 16-OCT-2023.

The following have access to data associated with this certificate:

MARCUS RAITANEN		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Saa Traxler, Director, North Vancouver Operations

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To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296462

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
GB2331		1.26	0.10	0.28	0.6	<0.02	<10	50	0.07	0.01	0.09	0.01	1.61	2.0	15	0.07
GB2332		1.28	0.02	0.11	0.8	<0.02	<10	<10	<0.05	0.01	0.26	0.01	8.51	2.6	27	0.06
GB2333		1.46	0.05	0.53	0.3	<0.02	<10	10	0.16	0.04	0.89	0.02	7.83	12.2	10	0.05
GB2334		1.96	0.17	1.30	0.7	0.02	<10	20	0.16	0.08	1.16	0.14	11.30	18.0	13	0.27
GB2336		1.03	0.03	1.13	0.1	<0.02	<10	10	0.11	0.05	1.42	0.03	5.14	14.4	60	0.17
GB2321		0.71	0.04	0.75	0.6	<0.02	<10	40	0.12	0.04	2.66	0.12	8.16	1.7	9	0.33
GB2322		1.42	0.11	0.70	1.0	<0.02	<10	10	0.13	0.11	0.13	0.03	15.95	6.2	61	0.13
GB2323		1.00	0.06	0.45	0.4	<0.02	<10	10	0.10	0.05	0.63	0.03	6.17	5.2	11	0.19
GB2324		1.15	0.08	0.97	0.4	<0.02	<10	20	0.13	0.04	1.07	0.04	8.79	23.5	32	0.36
GB2325		1.15	0.02	1.15	0.2	<0.02	<10	20	0.14	0.04	1.69	0.06	20.7	11.7	22	0.18

***** See Appendix Page for comments regarding this certificate *****

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To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296462

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
GB2331		10.4	1.37	2.57	<0.05	<0.02	<0.01	0.005	0.13	0.7	1.8	0.13	98	1.76	0.03	0.06
GB2332		11.8	1.91	1.32	<0.05	0.06	<0.01	<0.005	0.02	4.9	0.5	0.04	75	3.45	0.02	0.16
GB2333		83.8	4.82	3.72	0.09	0.19	<0.01	0.025	0.05	2.8	2.6	0.37	345	1.50	0.08	0.53
GB2334		76.0	3.85	4.85	0.16	0.16	<0.01	0.036	0.05	5.7	7.8	0.75	283	2.19	0.05	0.57
GB2336		39.4	2.22	4.41	0.08	0.09	<0.01	0.014	0.06	2.8	9.5	1.02	343	10.85	0.09	0.21
GB2321		32.5	4.89	4.00	0.52	0.15	<0.01	0.028	0.08	4.2	1.2	0.20	596	1.40	0.03	0.54
GB2322		463	1.67	4.21	0.06	0.24	<0.01	0.019	0.03	8.2	10.2	0.66	240	1.91	0.04	0.11
GB2323		66.2	2.79	3.38	0.08	0.12	<0.01	0.016	0.04	2.2	1.7	0.15	244	1.64	0.05	0.60
GB2324		112.0	7.45	7.89	0.13	0.19	<0.01	0.024	0.08	4.6	6.2	0.75	414	0.60	0.12	0.24
GB2325		44.8	1.92	5.00	0.11	0.15	<0.01	0.013	0.06	10.1	10.7	0.74	300	1.27	0.06	0.36

***** See Appendix Page for comments regarding this certificate *****

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To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296462

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
GB2331		2.7	140	2.7	2.3	<0.001	<0.01	<0.05	0.7	<0.2	<0.2	12.4	<0.01	<0.01	0.3	0.027
GB2332		3.1	380	0.8	1.0	<0.001	0.02	<0.05	0.9	<0.2	0.2	21.4	<0.01	0.01	0.2	0.060
GB2333		2.2	530	1.3	0.9	0.001	0.56	<0.05	6.2	0.6	0.5	11.8	<0.01	0.01	0.3	0.286
GB2334		16.3	590	2.4	2.8	0.002	0.63	<0.05	5.3	1.0	0.5	14.7	0.01	0.12	0.7	0.278
GB2336		29.6	200	1.8	2.1	0.010	0.06	0.12	6.0	<0.2	0.4	37.9	<0.01	0.03	0.2	0.181
GB2321		2.1	460	1.5	6.3	<0.001	0.23	<0.05	2.3	0.5	0.5	13.0	0.01	0.04	0.4	0.076
GB2322		19.8	160	3.9	1.1	<0.001	0.08	<0.05	3.2	0.5	0.4	9.0	<0.01	0.01	1.3	0.077
GB2323		1.2	540	1.5	2.1	<0.001	0.25	<0.05	3.1	0.2	0.4	13.1	<0.01	0.04	0.2	0.130
GB2324		18.8	590	1.1	4.6	0.001	0.59	<0.05	9.1	0.5	0.4	11.3	<0.01	0.03	0.3	0.303
GB2325		13.2	630	1.0	2.3	<0.001	0.07	<0.05	4.6	<0.2	0.3	126.5	<0.01	0.02	0.8	0.204

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296462

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.05	0.05	2	0.5
GB2331		<0.02	<0.05	18	<0.05	0.77	15	<0.5
GB2332		<0.02	<0.05	20	0.33	3.34	8	1.6
GB2333		<0.02	0.13	73	0.09	12.65	38	3.8
GB2334		0.02	0.13	85	0.16	6.51	113	3.4
GB2336		0.02	0.16	64	0.10	5.28	39	2.0
GB2321		0.02	0.09	42	0.23	3.35	24	4.0
GB2322		<0.02	0.37	39	0.09	2.58	36	7.6
GB2323		0.02	0.06	13	0.15	9.55	26	2.2
GB2324		0.03	0.18	216	<0.05	10.65	67	4.0
GB2325		<0.02	0.11	54	0.15	4.56	39	3.1

***** See Appendix Page for comments regarding this certificate *****

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To: LOST HOPE MINE
204 ZIEGLER ST
OTTAWA ON

Finalized Date: 31-OCT-2023
Account: LHMECEJX

Project: KL West Gold Project

CERTIFICATE OF ANALYSIS SD23296462

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME-MS41

Appendix D - EM-16 Specifications

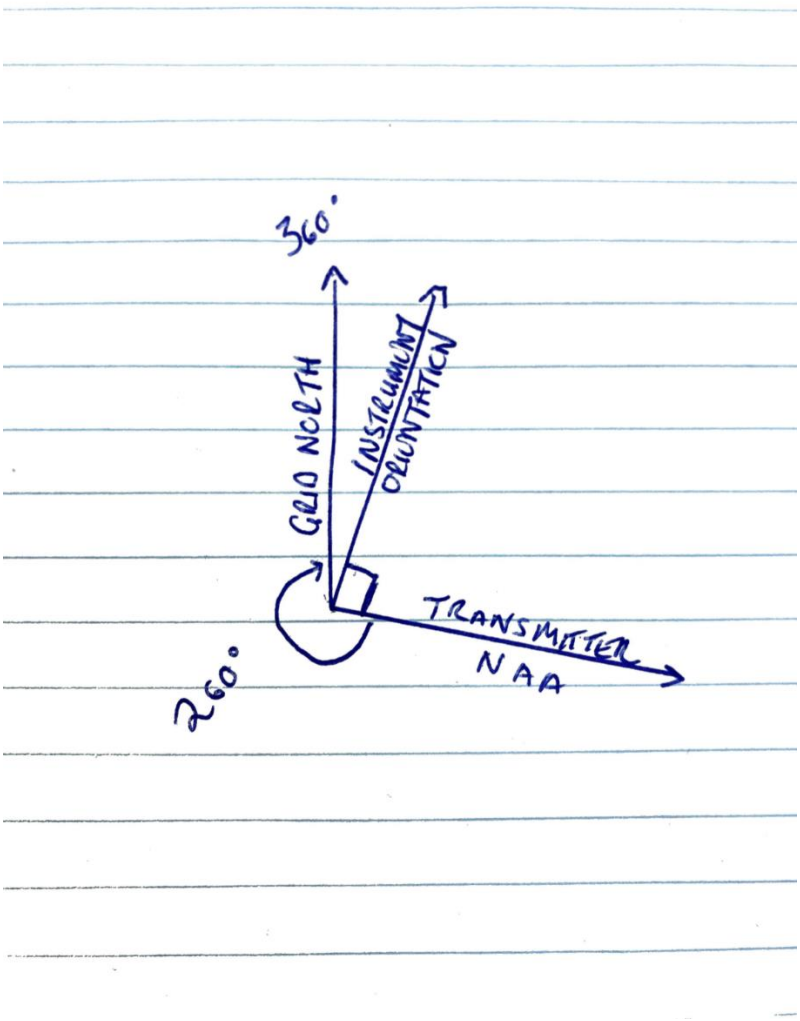
EM16 SPECIFICATIONS

MEASURED QUANTITY	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	Inphase: ±150% Quad-phase: ± 40%
RESOLUTION	±1%
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz (15-30 kHz optional) VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	53 x 21.5 x 28 cm
WEIGHT	Instrument: 1.8 kg Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°c. Warranty does not cover inclinometers damaged by such exposure.

Appendix E - Survey Field Notes



Instrument used: Geonics EM16 serial no.071509 on loan from the Office of the Sudbury Regional Geologist



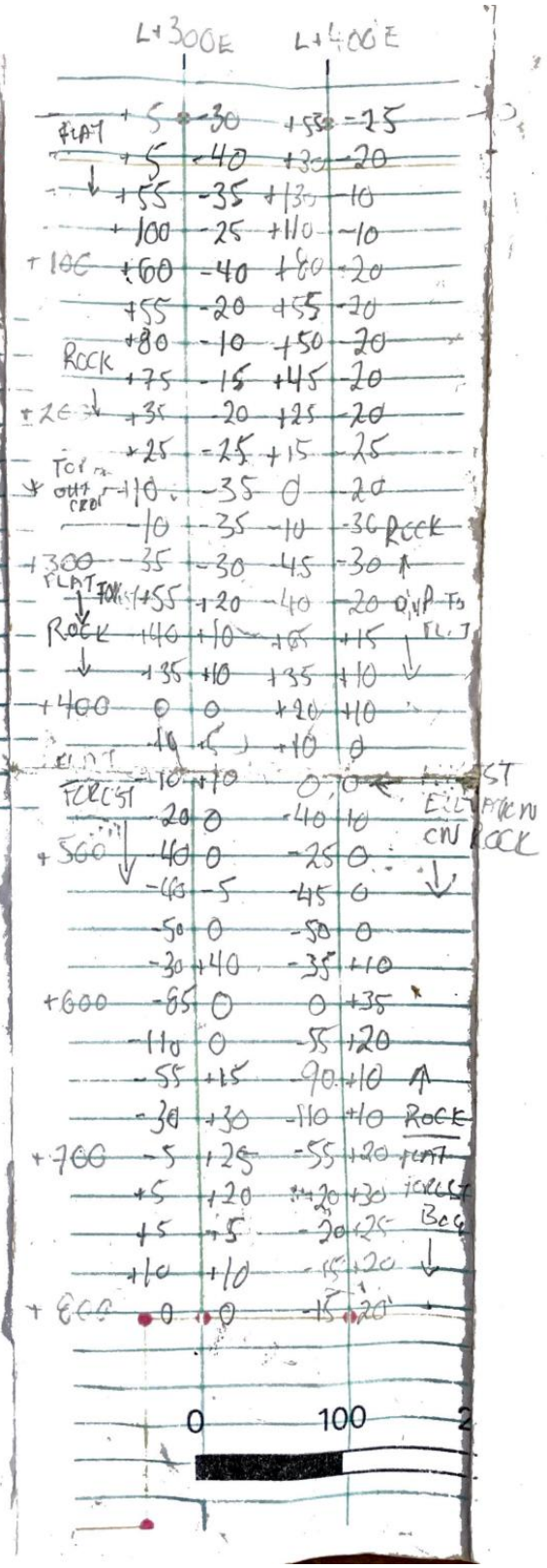
Survey Notes:
Field Tech: MR
Date: 10/11/23
Temp/weather: CLOUDY 7°C
Instrument:
EM16 VLF

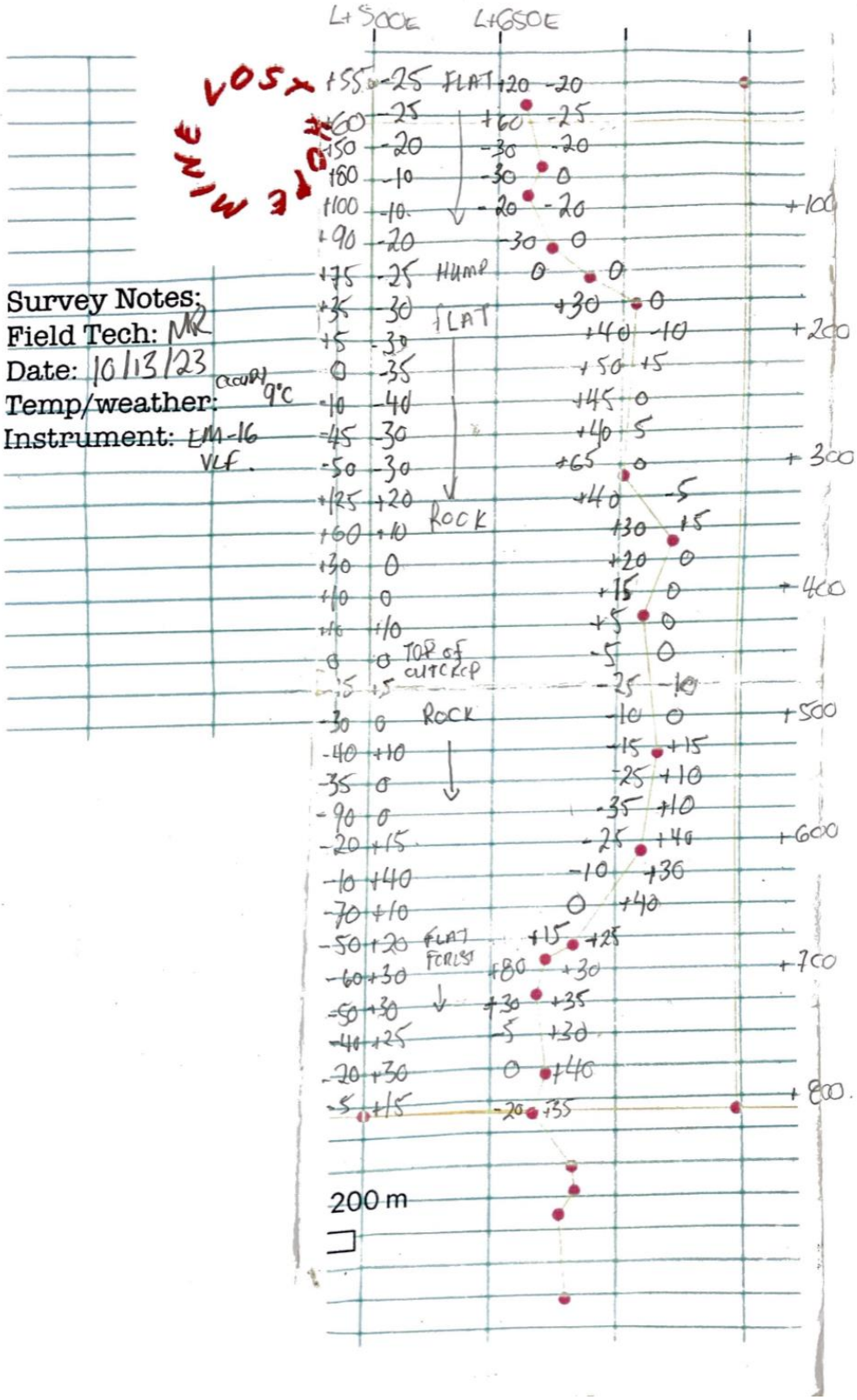
L+10CE L+12CE

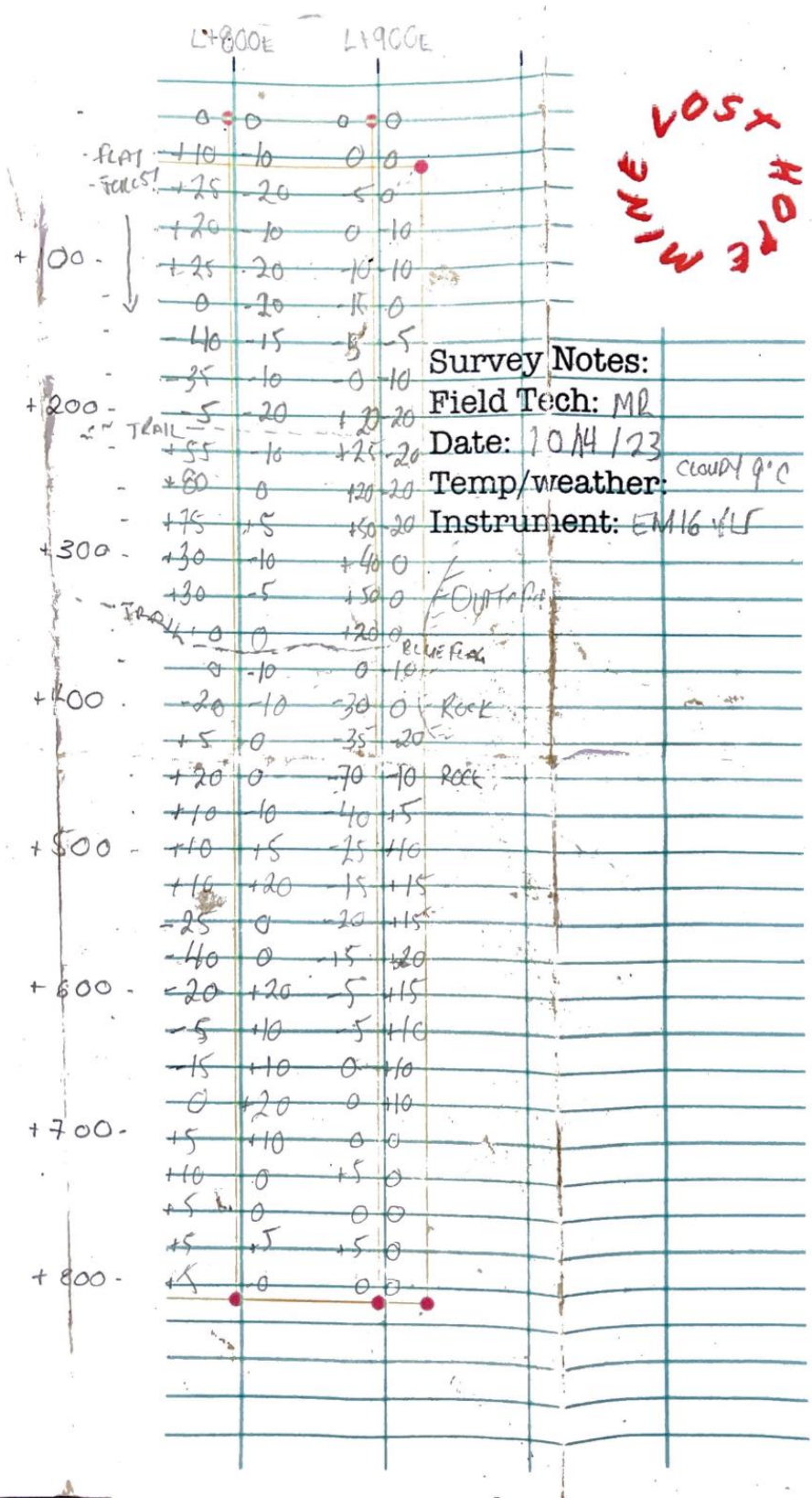
	FLAT FOREST	-5	+15	-20	-10 FLAT
		-10	+10	-20	-20 FOREST
	↓	-5	0	+5	-30 ↓
		-10	-30	0	-30
+100		-15	+20	+5	-30
		-10	+10	+45	-20
		-15	+10	+50	+10
		-5	+5	+60	0
+200	ROCK CUTBACK	-15	+15	+20	0 ROCK
	↓	-25	-20	0	-30 ↓
		-15	+20	0	-10 ROCK
		-35	-5	-5	0
+300	TOPOR CUTBACK	-0	+18	-15	-20 ↓
		-55	+10	-10	-10
	FLAT FOREST	-15	+10	+5	0
		-25	+10	+5	+20
+400	↓	-20	+10	-5	-10 ROCK
	↓	-30	0	-5	0 ↓
		-30	+40	-15	+5 ROCK
	ROCK	-10	+10	-5	+10
+500	FLAT	-25	-20	-60	-20 ON ROCK
	FOREST	-25	+10	-70	-10 FLAT
		-10	-10	-65	-10 FOREST
	↓	-5	+10	-30	+20 BOG
+600		-5	-40	-25	+15 ↓
		-20	-40	-20	+20
		-10	+20	-15	+20
		-20	+10	-5	0
+700		+10	+10	-20	10
		-25	-10	-10	-10
		-30	0	-10	-10
		-15	-10	10	-10
+800		-25	0	0	0
		-30	5	-10	-30
		-35	5	5	+10
		-35	-30	5	-10
+900		-35	-10	0	+10
		-25	0	-10	-10

LOST HORSE MINE

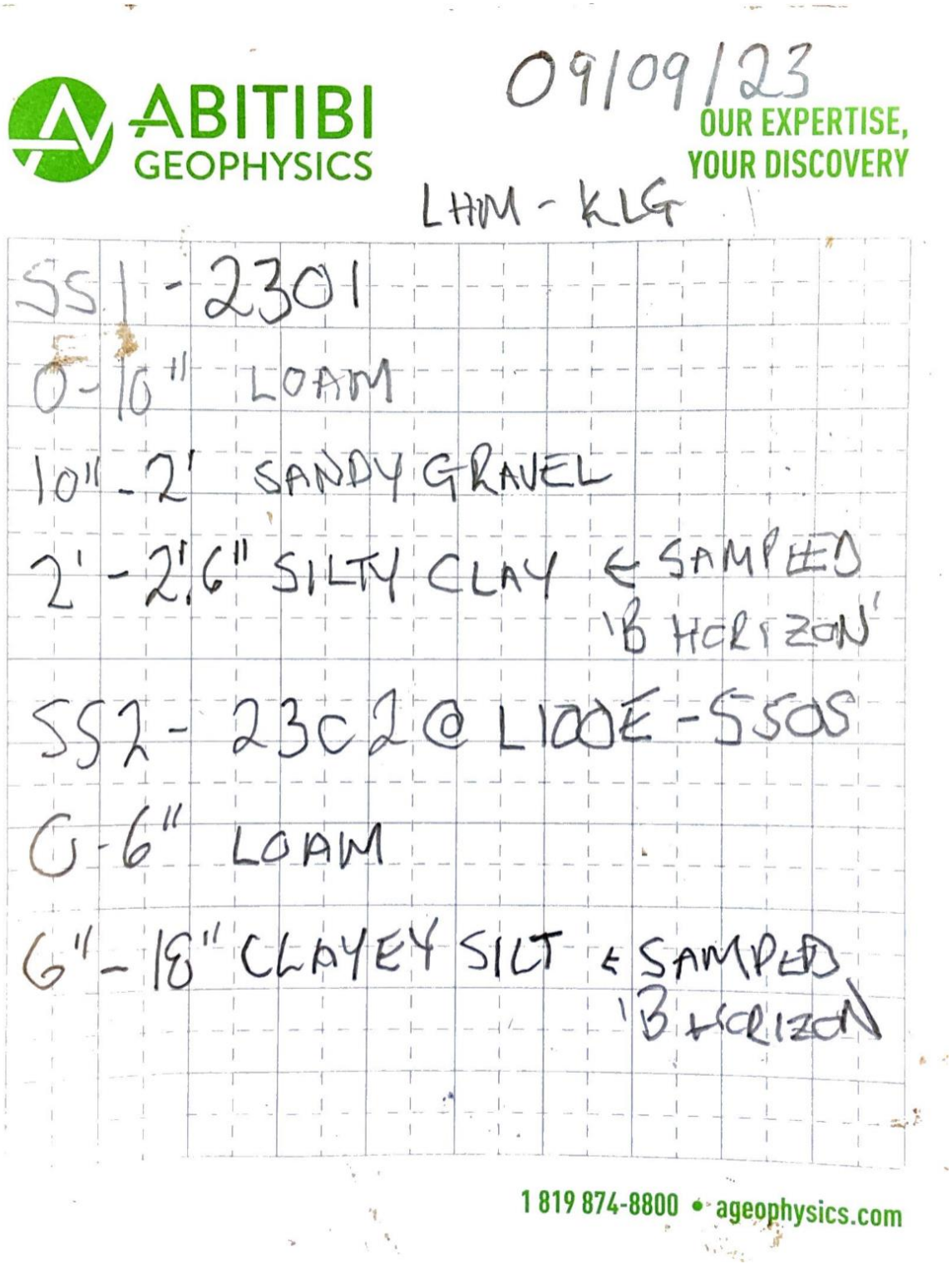
Survey Notes:
Field Tech: MR
Date: 10/12/23
Temp/weather: Cloudy 9°C BREEZE
Instrument: EM16 VLF.




L+50OE
L+65OE
LOST MINE ROAD
Survey Notes:
Field Tech: MR
Date: 10/13/23
Temp/weather: cloudy 9°C
Instrument: EM-16 VLF
+55 -25 FLAT +20 -20
+60 -25 +60 -25
+50 -20 -30 -20
+80 -10 -30 0
+100 -10 -20 -20
+90 -20 -30 0
+75 -25 HUMP 0 0
+35 -30 FLAT +30 0
+5 -30 +40 -10
0 -35 +50 +5
-10 -40 +45 0
-45 -30 +40 5
-50 -30 +65 0
+125 +20 +40 -5
+60 +10 ROCK +30 +5
+30 0 +20 0
+10 0 +15 0
+10 +10 +5 0
0 0 TOP OF CLIFF -5 0
-5 +5 -25 -10
-30 0 ROCK -10 0
-40 +10 -15 +15
-35 0 -25 +10
-90 0 -35 +10
-20 +15 -25 +40
-10 +40 -10 +30
-70 +10 0 +40
-50 +20 FLAT FOREST +15 +25
-60 +30 +80 +30
-50 +30 +30 +35
-40 +25 -5 +30
-20 +30 0 +40
-5 +15 -20 +35
+100
+200
+300
+400
+500
+600
+700
+800
200 m


L+800E
L+900E
VOSTOK MINE
Survey Notes:
Field Tech: ML
Date: 10/14/23
Temp/weather: CLOUDY 9°C
Instrument: EM16 #45
FLAT
FENCE!
TRAIL
TRAIL
OUTCROP
BLUE FLAG
ROCK
ROCK
+100
+200
+300
+400
+500
+600
+700
+800

Appendix F - Soil Sample Logs



09/09/23

ABITIBI GEOPHYSICS

OUR EXPERTISE, YOUR DISCOVERY

LHM KLG

SS3 - 2312

0-6" LOAM

6"-18" STIFF CLAY ← SAMPLED B HORIZON

SS4 - 2313

0'-6" LOAM

6"-12" CLAYEY SILT - SAMPLED B HORIZON

09/09/23

ABITIBI GEOPHYSICS

OUR EXPERTISE, YOUR DISCOVERY

LHM - KLG

555 - 2314

0' - 6" LOAM

6" - 18" STIFF SILTY CLAY

*SAMPLED - B HORIZON

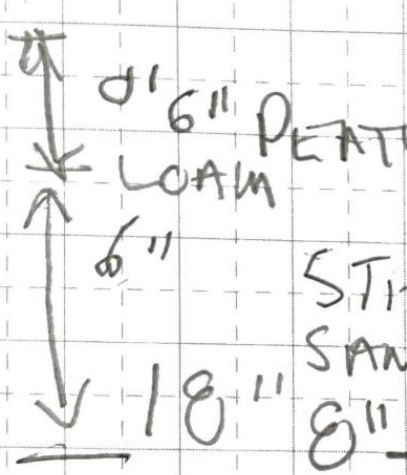
ABITIBI GEOPHYSICS

OUR EXPERTISE, YOUR DISCOVERY

10/14 /23

LHM - KLW

SS 2326



ABITIBI GEOPHYSICS

10/14/23

LHN · KLW

OUR EXPERTISE, YOUR DISCOVERY

SS 2327



0'-6" PLAT / CRUMBLY

6"-24" STIFF CLAY

SAMPLED @ 12"

HORIZON B.

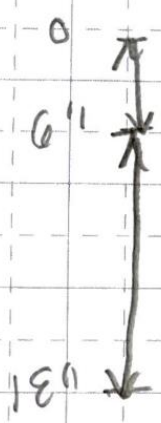
ABITIBI GEOPHYSICS

OUR EXPERTISE, YOUR DISCOVERY

10/14/23

LHM KLW

SS 2329



PUMT - GRAVELY.

STIFF CLAY

SOME SAND.

SAMPLED @ 12"

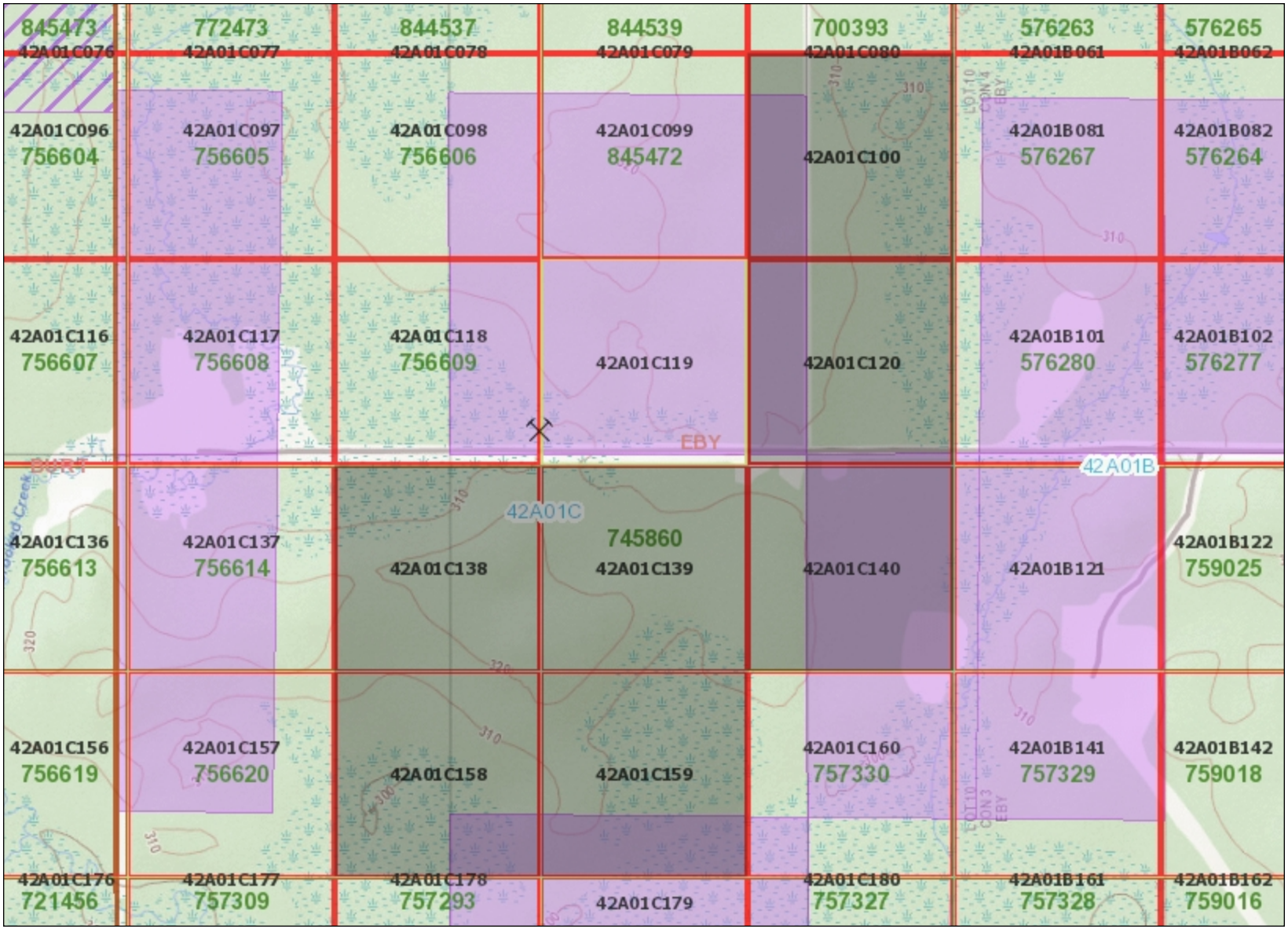
Ontario

Ministry of Mines (MINES)

MLAS Map Viewer

MLAS Map

Notes:
Claim 745860 (shaded)



Legend

Provincial Grid Cell
- Available
- Pending
- Unavailable

Mining Claim
- Mining Claim
- Boundary Claim

Alienation
- Withdrawal
- Notice

MINES Administrative Boundaries
- MINES Townships and Areas
- Geographic Lot Fabirc
- UTM Grid 1K
- UTM Grid 10K
- Mining Division
- Mineral Exploration and Development Region
- CLUPA Protected Area - Far North
- Resident Geologist District
- Federal Land Other
- Native Reserves
- AMIS Sites
- AMIS Features
- Drill Hole
- Mineral Occurrences

MLAS Mining History
- Withdrawal - History
- Notice - History
- Mining Claim - History
- Mining Land Tenure - History
- Legacy Claim

Provincial Grid
- Provincial Grid 250K
- Provincial Grid 50K
- Provincial Grid Group

Land Tenure
- Surface Rights
- Mining Rights
- Mining and Surface Rights
- Order-in-Council

Those wishing to register mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Mines (MINES) for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources and Forestry. The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Mines (MINES) web site.

0 0.68 km

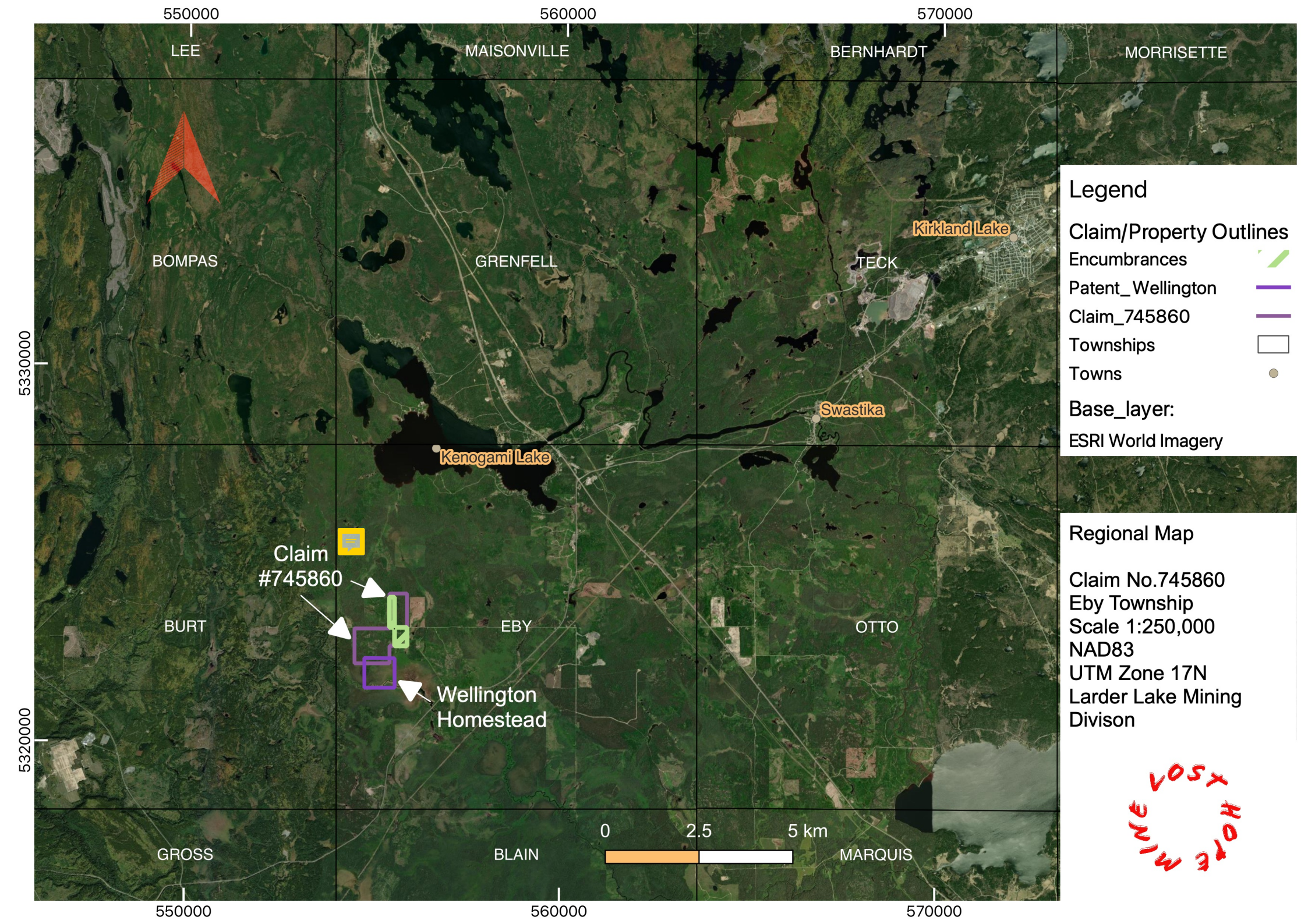
N

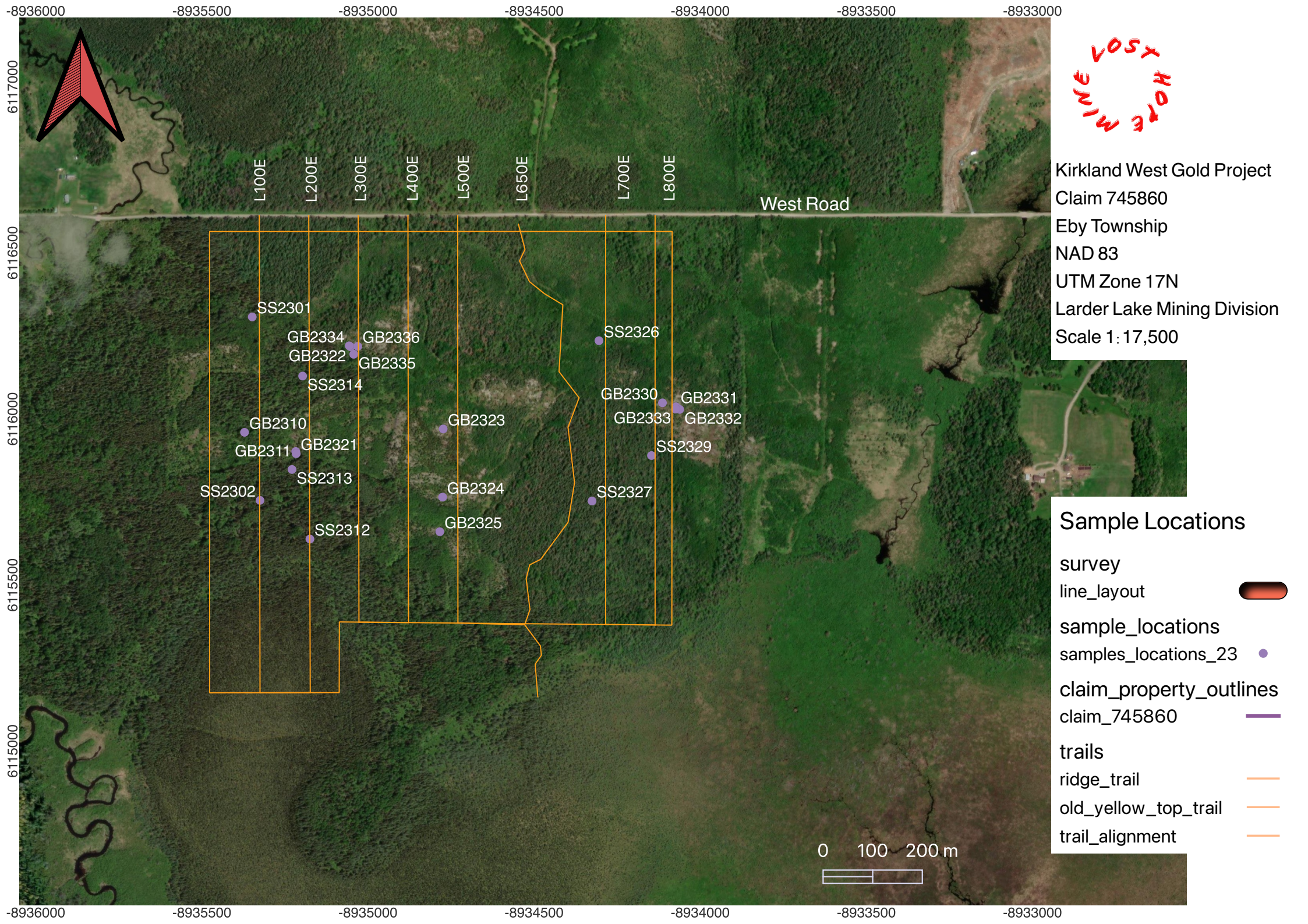
Projection: Web Mercator



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550000
560000
570000
LEE
MAISONVILLE
BERNHARDT
MORRISETTE
BOMPAS
GRENFELL
TECK
Kirkland Lake
Swastika
Kenogami Lake
5330000
5320000
Claim
#745860
BURT
EBY
OTTO
Wellington
Homestead
GROSS
BLAIN
MARQUIS
0
2.5
5 km
Legend
Claim/Property Outlines
Encumbrances
Patent_Wellington
Claim_745860
Townships
Towns
Base_layer:
ESRI World Imagery
Regional Map
Claim No.745860
Eby Township
Scale 1:250,000
NAD83
UTM Zone 17N
Larder Lake Mining
Divison
LOST HOPE MINE


-8936000
-8935500
-8935000
-8934500
-8934000
-8933500
-8933000
6117000
6116500
6116000
6115500
6115000
L100E
L200E
L300E
L400E
L500E
L650E
L700E
L800E
West Road
SS2301
GB2334
GB2336
GB2322
GB2335
SS2314
GB2310
GB2311
GB2321
SS2313
SS2302
SS2312
GB2323
GB2324
GB2325
SS2326
GB2330
GB2331
GB2333
GB2332
SS2329
SS2327
0
100
200 m
VOSX HOLE MINE
Kirkland West Gold Project
Claim 745860
Eby Township
NAD 83
UTM Zone 17N
Larder Lake Mining Division
Scale 1:17,500
Sample Locations
survey
line_layout
sample_locations
samples_locations_23
claim_property_outlines
claim_745860
trails
ridge_trail
old_yellow_top_trail
trail_alignment