Ontario

We are committed to providing accessible customer service.
If you need accessible formats or communications supports, please contact us.

Nous tenons à améliorer l’accessibilité des services à la clientèle.
Si vous avez besoin de formats accessibles ou d’aide à la communication, veuillez nous contacter.

Timmins Nickel Property, North Block

2022 Work Report

Geary, Mahaffy and Thornburn Townships

Timmins District, NTS 42A/13

(UTM Nad83 Zone 15)

452500E, 540635N

Prepared by: Andrew Tims P.Geo,

December 4, 2022

Table of Contents

List of Figures

List of Tables

1.0 Summary

The Timmins Nickel property consists of 242 single-cell claims plus one multi-cell (7) claim covering a total of 5,176 hectares and lies within the Townships of Geary, Mahaffy and Thorburn. Xander Resources optioned the bulk of the property from North American Exploration Ltd on October 25th, 2021. Subsequently Xander staked a seven-cell claim along the northern block's southern boundary in Thorburn Township in December of 2021.

A work program oriented towards developing Nickel-Copper drill targets started on October 26th, 2021 and finished on August 17th, 2022. The work included merging and interpreting of historical airborne data, acquisition of high-resolution magnetic data and orientation soil surveys. The above results plus a review of historical drill data was undertake and seven drill targets were identified.

A Phase One work program consisting of 4,000 metres of drilling is recommended to test the drill targets. A Phase Two work program consisting of ground and downhole electromagnetic surveys plus and an additional 10,000 m of drill is recommended if the results of Phase One warrant the additional work.

2.0 Introduction

This report presents and summarizes the results of an orientation soil survey undertaken in November of 2021, amalgamation, levelling and processing of historical airborne geophysical data plus completion of drone magnetic surveys in 2022. The work was undertaken or supervised by the author. The property physically split into two blocks. This report applies to the northern block only. The work was undertaken on behalf of Xander Resources Inc. in Geary, Mahaffy and Thornburn Townships within the Porcupine Mining District.

3.0 Property Description and Location

The Timmins Nickel property is located in Geary, Mahaffy and Thornburn Townships approximately 44 km northwest of Timmins, Ontario (Figure 1), in the Porcupine Mining Division. The approximate UTM co-ordinates for the centre of the property is 452500m E, 540635mN (NAD83 Zone 17) on NTS map sheets 41A/13.

Road access to the property is provided by the Abitibi Main Haul Road that extends northward from Highway 576 at Kamiskotia Lake, and passes through the west side of the Timmins Nickel property. Winter logging roads extends from the main haul road in varying degrees of utility due to tree plantation activities and the low-lying wet terrain.

There are no known environmental liabilities or public hazards associated with the property. The topography of the property has very low relief with a rolling surface and elevations ranging from 287 metres to 317 metres above sea level. The terrain consists of low-lying areas covered by glacial clay and sand formed from the lakebed sediments of Glacial Lake Ojibway. It was originally heavily wooded with spruce, jackpine, birch and popular, but a significant amount of forest has been removed with large swaths of 15-20 year old spruce and jackpine plantations. The property has an active MNDM exploration permit: PR-21-000340.

4.0 Claims and Ownership

The Property is composed of 242 single cell claims plus one multi-cell (7) claim covering a total of 5,176 hectares and lies within the Townships of Geary, Mahaffy and Thornburn in the Porcupine Mining Division.

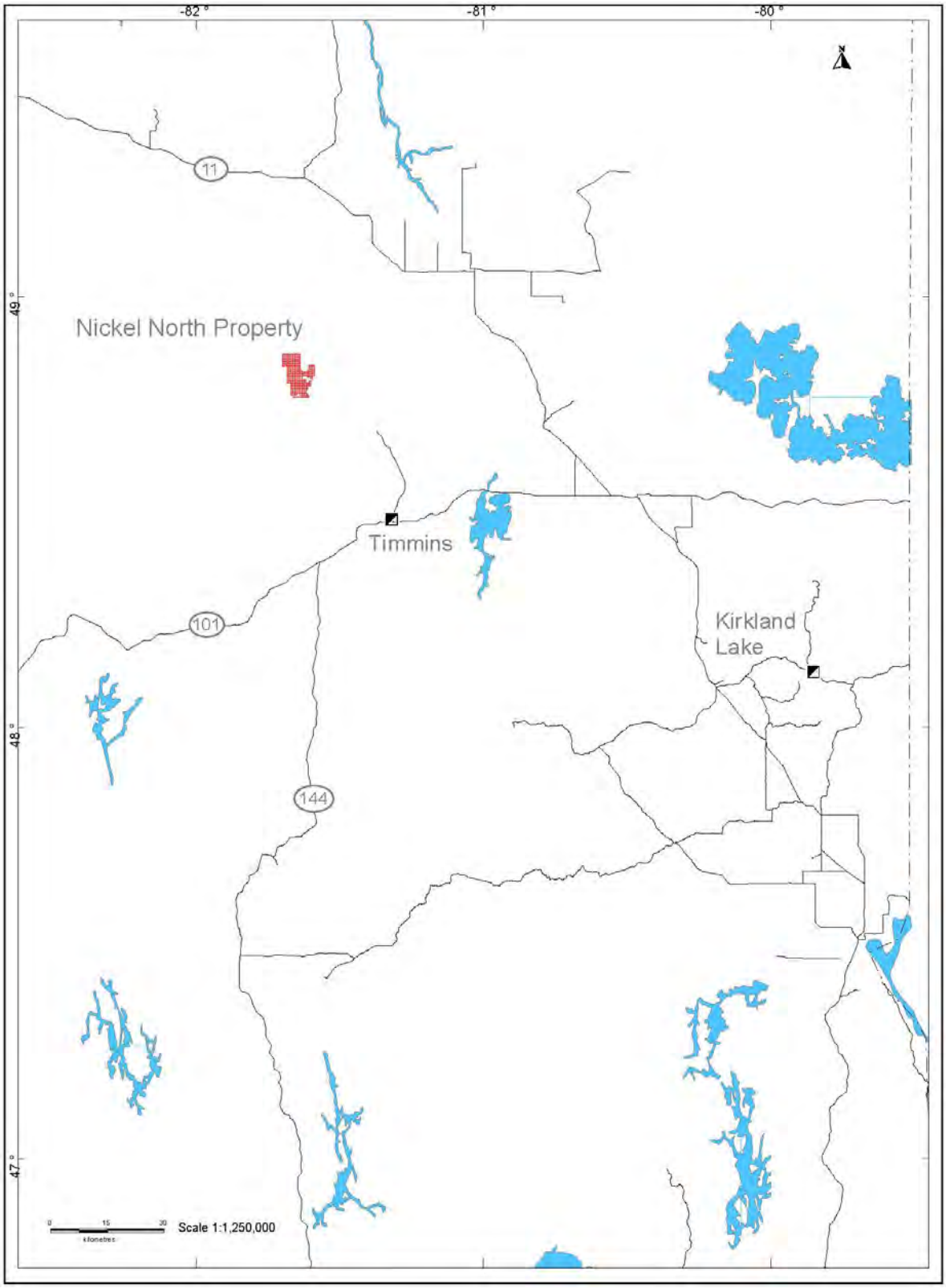


Figure 1 Location of the Nickel North Property in the Timmins District

Figure 2 Nickel North Claim Map

Xander optioned 236 single-cell claims from North American Exploration Ltd on October 25th, 2021. The property consisted of three separate blocks. The majority of the claims were in two closely spaced blocks in Geary-Mahaffy-Thorburn Townships. The third block is located to the south in MacDiarmid Township. Subsequently Xander staked a seven-cell claim along the northern block's southern boundary in Thornburn Township in December of 2021. Six additional single-cell claims were acquired in October 2022 to consolidate the 2 northern property blocks into one (Figure 2). A table of the claims in the northern block provided below.

Table 1. Nickel North Claims. (ENDM, Sept 30. 2022)

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
627461	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627462	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627463	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627464	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627465	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627466	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627467	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627468	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627469	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627470	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627471	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627472	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627473	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627474	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627475	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627476	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627477	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627478	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627479	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627480	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627481	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627482	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627483	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
627484	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627485	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627486	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627487	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627488	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627489	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627490	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627491	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627492	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627493	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627494	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627495	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627496	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627497	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627498	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627499	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627500	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627501	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627502	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627503	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627504	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627505	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627506	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627507	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627508	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627509	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627510	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627511	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627512	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627513	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627514	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627515	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627516	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627517	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627518	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627519	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627520	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627521	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627522	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627523	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
627524	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627525	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627526	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627527	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627528	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627529	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627530	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627531	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627532	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627533	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627534	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627535	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627536	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627537	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627538	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627539	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627540	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627541	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627542	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627543	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627544	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627545	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627546	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627547	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627548	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627549	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627550	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627551	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627552	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627553	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627554	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627555	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627556	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627557	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627558	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627559	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627560	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627561	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627562	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627563	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
627564	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627565	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627566	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627567	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627568	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627569	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627570	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627571	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627572	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627573	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627574	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627575	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627576	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627577	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627578	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627579	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627580	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627581	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627582	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627583	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627584	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627585	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627586	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627587	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627588	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627589	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627590	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627591	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627592	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627593	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627594	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627595	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627596	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627597	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627598	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627599	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627600	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627601	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627602	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627653	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
627654	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627655	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627656	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627657	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627658	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627659	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627660	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627661	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627662	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627663	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627664	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627665	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627666	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627667	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627668	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627669	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627670	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627671	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627672	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627673	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627674	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627675	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
627676	Single Cell	Active	2022-12-28	400	0	NORTH AMERICAN EXPLORATION LTD.
655168	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655169	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655170	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655171	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655172	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655173	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655174	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655175	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655176	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655177	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655178	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655179	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655180	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655181	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655182	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655183	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655184	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
655185	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655186	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655187	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655188	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655189	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655190	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655191	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655192	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655193	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655194	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655195	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655196	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655197	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655198	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655199	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655200	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655201	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655202	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655203	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655204	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655205	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655206	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655207	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655208	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655209	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655210	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655211	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655212	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655213	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655214	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655215	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655216	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655217	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655218	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655219	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655220	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655221	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655222	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655223	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655224	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.

TENURE ID	Tenure Type	Status	Claim Due	Work Required	Total Reserve	Title
655225	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655226	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655227	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655228	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655229	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655230	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655231	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655232	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655233	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655234	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655235	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655236	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
655237	Single Cell	Active	2023-05-06	400	0	NORTH AMERICAN EXPLORATION LTD.
688522	Multi-cell	Active	2023-12-02	2800	0	Xander Resources Inc.
746656	Single Cell	Active	2024-09-17	400	0	JONATHON PAUL DELUCE
746657	Single Cell	Active	2024-09-17	400	0	JONATHON PAUL DELUCE
746658	Single Cell	Active	2024-09-17	400	0	JONATHON PAUL DELUCE
746660	Single Cell	Active	2024-09-17	400	0	JONATHON PAUL DELUCE
746661	Single Cell	Active	2024-09-17	400	0	JONATHON PAUL DELUCE
746663	Single Cell	Active	2024-09-17	400	0	JONATHON PAUL DELUCE

5.0 History

1954. A licence to prospect the eastern portion of the property was given to P. Kelly and E. Carter by the Minister of Mines in 1954.

Abitibi Power & Paper Co Ltd completed a 3-drill hole, 386 m, work program over the exploration given to Kelly and Carter.

1964. In 1964 Crowpat Minerals Limited carried out magnetic and induced polarization surveys over seven claims in the southeast corner of the property. The IP results were negative and in 1966, a vertical loop electromagnetic (VLEM) survey was run, again with negative results.

1965. In 1965, Patino Mining Corp. Ran magnetic and VLEM surveys over nine claims in the northwest corner of the property. One drill hole, T-1, drilled to test conductor 'A' was abandoned in overburden after 100 m.

International Nickel Co. Of Canada Ltd. drilled two holes in the southern portion of the property. The conductor was explained by graphitic sediments

In 1965, Allied Pitchore Mines Limited ran a vertical loop electromagnetic (VLEM) survey east of the seven-cell claim.

Mespi Mines Ltd flew a 58 km fixed-wing magnetic and electromagnetic survey in the core of the current property.

1966. In 1966, Mespi Mines Limited ran a Crone JEM survey over the southern seven-cell claim. Two holes were drilled to test conductor 'B'; Hole LT-10 was abandoned before reaching bedrock and Hole LT-1 massive graphite and pyrite.

1971. In 1971, Hollinger Mines Limited conducted a very low frequency (VLF) electromagnetic survey a portion of the seven-cell claim. One hole, TH2-1-72, was drilled on the north edge of the lake to test a VLF anomaly, however, no conductivity was intersected.

1976. Young Davidson Mines complete a magnetic survey north of the Abitibi haul road.

1979. Amax Minerals Exploration Ltd completed a 191 m drill hole, Thorburn1B.

1981. In 1981, Gulf Minerals Canada Limited carried out magnetic and HLEM surveys over various areas in Geary, Mahaffy and Thorburn townships including the area of the seven-cell claim.

Gulf Minerals Canada followed up with a six drill hole, 806 metres, work program spread throughout the current property.

1987. In 1987, a combined airborne magnetic and electromagnetic survey was flown in the Timmins area for the Ontario Geological Survey (OGS, 1988) and included Thorburn Township. The survey was flown along north-south lines spaced approximately every 200 metres.

1988. Comstate Resources Ltd has Dale Pyke map outcrop along the current property’s southern most claims.

1989. Falconbridge completed a magnetic survey north of the Abitibi haul road followed by 4 dill hole, GY31-03, GY32-01 and GY33-01 for a total of 849 metres.

1990. Falconbridge a 3 dill holes GY31-05 & 05 plus GY33-02 & 03 for a total of 849 metres.

1991. Noranda Exploration Co completed a 203 metre drill hole on an airborne conductor.

D. Meunier completed one drill hole, DMG-1-91, along the current eastern property boundary totalling 224 metres.

1992. OPAP grant which included the 1991 drill also completed an UTEM survey and stripping of outcrop.

1999. Electromagnetic, Induced Polarization and Magnetometer Surveys were completed by B. Raine on the southern-most claims following up drill intersections from Mespi Mines Limited in 1966.

2000. Bruce Raine followed up the 1999 OPAP work with a 152 m drill holes testing a weak IP chargeability anomaly.

2004. HLEM and magnetic surveys were carried out on target GY-14 by Falconbridge Limited in the west central portion of the property.

HLEM and magnetic surveys were carried out on target GY-23 by Falconbridge Limited in the west central portion of the property.

2005. Falconbridge carried out a HLEM and magnetic surveys west of the seven-cell claim.

2006. Falconbridge Limited completed three hole, GY21-01 & 02 plus GY23-01 totaling 903 metres.

2007. Sedex Mining Corp flew a Geotech VTEM survey over the northern two—thirds of the current property.

2008. Mantis Expl Inc flew a Geotech VTEM survey over the southern third of the current property.

Micon Gold Inc commissioned Exsics Exploration Limited to complete an Induced Polarization, (IP), survey and a total field magnetic survey over a portion of their Thorburn-Reid-Geary property.

2011. Micon Gold Inc undertook soil sampling over Induced-Polarization (IP) geophysical anomalies over the east and central portions of the original 6-claim lease.

2012. Jubilee Gold Exploration Ltd completed an induced Polarization, (IP), survey and a total field magnetic survey between the main block and the east block.

2013. Jubilee Gold Exploration Ltd undertook soil sampling over Induced-Polarization (IP) geophysical anomalies in two areas of the Geary Township property.

2014. Jubilee Gold Exploration Ltd continued from 2013 soil sampling over IP conductors.

6.0 Geology

6.1 Regional Geology

The north block of the Timmins Nickel property is situated in the western portion of the Abitibi Greenstone Belt (2.8 to 2.6 Ga) of the Superior Province (Figures 3 and 4). The supracrustal rocks of the Abitibi Greenstone Belt (AGB) are uniquely well preserved and have mostly been overprinted only at a low metamorphic grade (Monecke et al., 2017). The economic importance of the AGB is of incredible importance as it contains some of the most important gold and base metal mining camps in Canada, as well as a long history of punctuated production from intrusive and komatiite- hosted Ni-Cu-(PGE) sulphide deposits. More than an estimated 50% of the supracrustal rocks of the AGB, including those on the Property, are under tens of metres of clay-dominated cover (referred to as the “Abitibi Clay Belt” or “Great Clay Belt” and formed from the lakebed sediments of Glacial Lake Ojibway), making mineral exploration challenging and expensive and hampering the discovery rate of new metal mines. At the same time this also creates an opportunity for discovery.

The AGB has been subdivided into nine litho-tectonic assemblages or volcanic episodes (Ayer et al., 2002a, 2002b and 2005), however, the relationships between these assemblages are for the most part ambiguous. Allochthonous greenstone belt models, with each terrane having been formed in a different tectonic environment, predict them to be a collage of unrelated fragments. Autochthonous greenstone belt

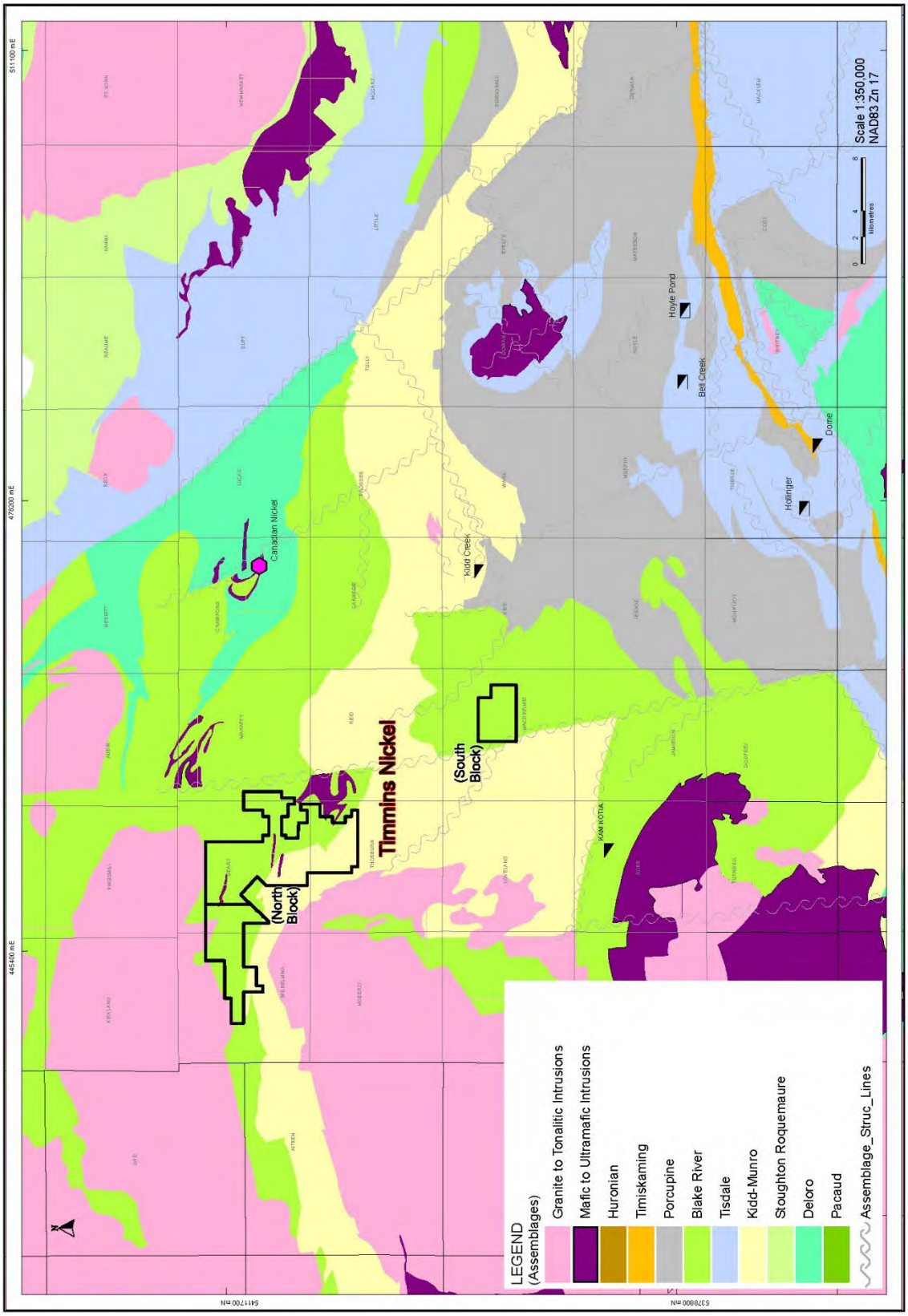


Figure 3. Regional Geological Assemblages Map

models allow for the prediction of syngenetic mineral deposits hosted by specific stratigraphic intervals and formed within a structurally deformed singular terrane. Greenstone belts in the Superior Province consist mainly of volcanic units unconformably overlain by largely sedimentary “Timiskaming-style” assemblages, and field and geochronological data indicate that the AGB developed autochthonously (Thurston et al., 2008). Proterozoic dikes of the Matachewan Dyke Swarm and the Abitibi Dyke Swarm intrude all of the rock in the region. Matachewan dikes generally trend north-northwest while the younger Abitibi

6.2 Property Geology

Outcrop exposure on property is rare. For this reason, interpretation of the geology is based on analyses and observation of drill core and geophysical data. Reclassification of the lithological assemblages in the southern AGB (Ontario portion) by using detailed U/Pb geochronology and updated geological and geophysical compilations (Ayer *et al.*, 2005; Thurston *et al.*, 2008) has the Timmins Nickel north block straddling the contact between the Kidd-Munro and Blake River Assemblages.

In general, the stratigraphy of the property strikes west-northwest, dips approximately 70° to 80° north and is offset by several north trending, possibly synvolcanic faults. Geology of the Blake River Assemblage consists of a thick sequence of predominately massive to pillowed mafic volcanics with lesser komatiite flows and iron formation. The southern Kidd Munro Assemblage hosts felsic flows and tuffs intercalated with iron formation and mafic-ultramafic intrusives.

7.0 Work Program

The work program on the Timmnis Nickel property consisted of acquisition, merging, leveling and reinterpretation of historical airborne electromagnetic data, high resolution drone magnetic surveys and soil orientation surveys over selected geophysical targets. The author carried out the mobile metal ion soil survey in November of 2021. During 2022 permission was sought and the historical airborne data flown by Sedex Mining and Mantis Minerals, 2008, was reprocessed for drill hole target generation. To supplement the historical geophysics a UAV-borne magnetic survey was flown in August of 2022.

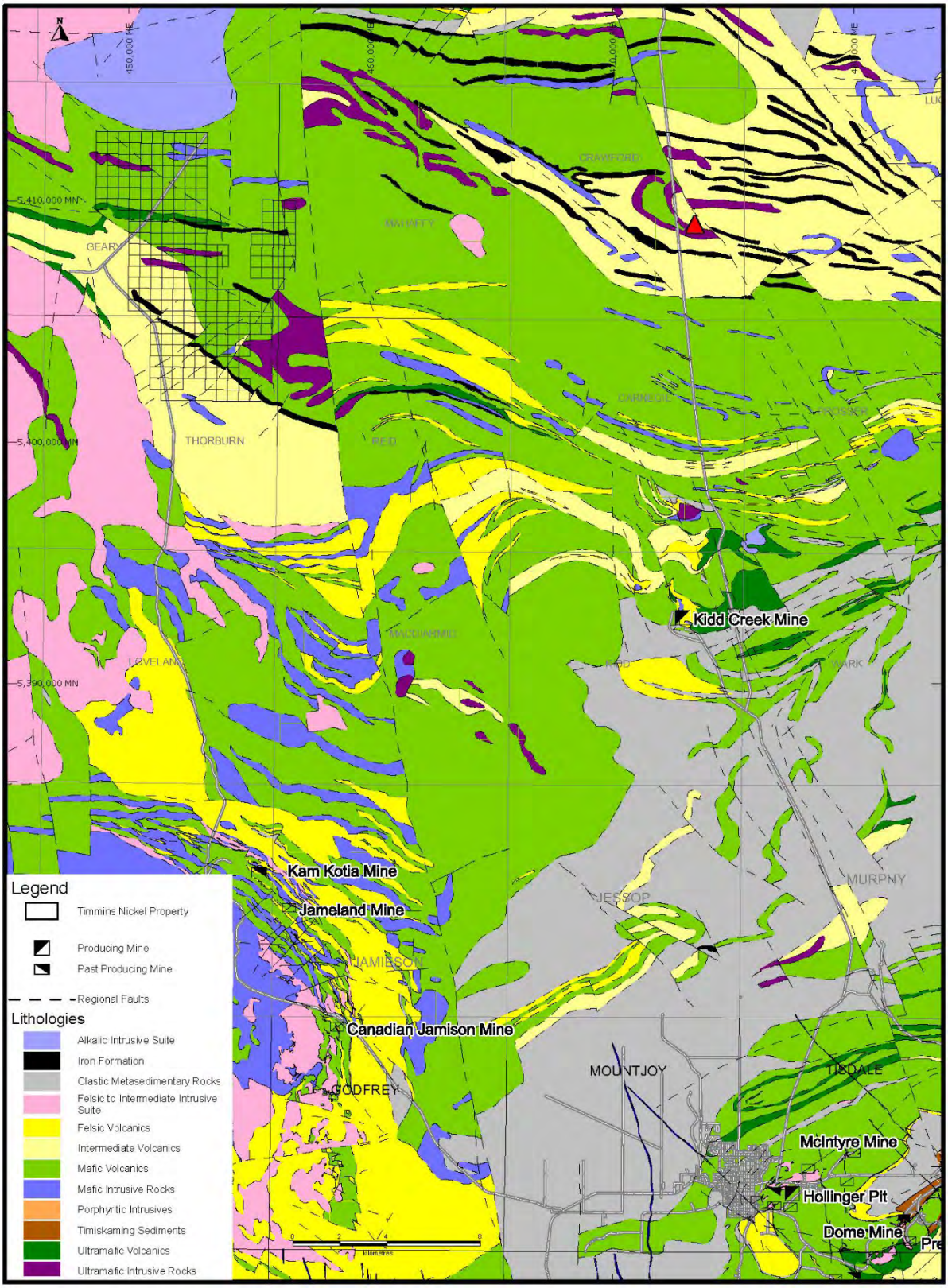


Figure 4. Property Geology Map

7.1 Geophysical Reprocessing and Interpretation

During the Spring of 2022, between June 10 and August 17th, Johnston Geophysics spent 10 days to reprocess and analyze airborne geophysical data from 2 separate 2008 VTEM surveys flown by Geoteck Ltd. The surveys were merged and leveled with magnetic and electromagnetic interpretations found in Appendix 1 and figure 5. This was followed with a UBC inversion of the EM data to produce a 3D voxel of the conductive bodies for diamond drill targeting purposes. Supervision of the work completed was done by the author.

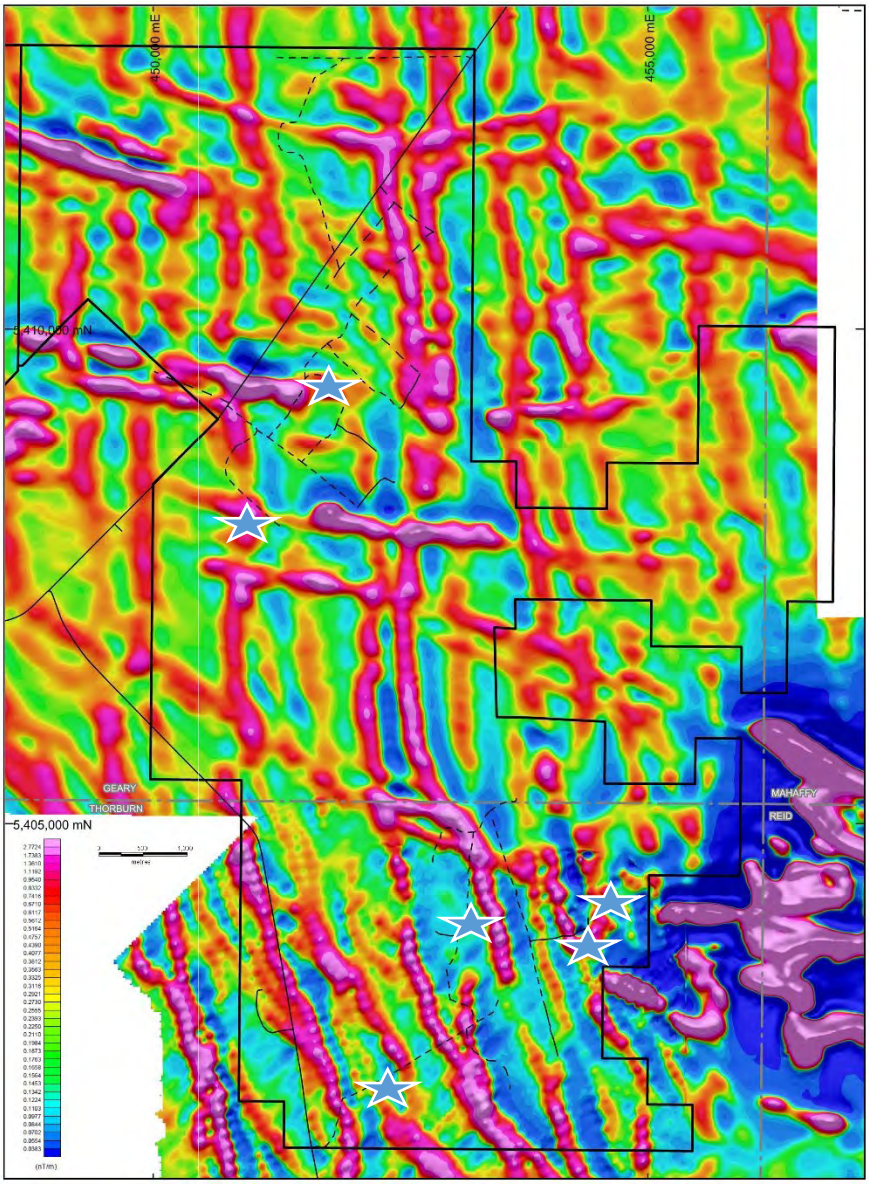


Figure 5. Image of merged 2008 Geotech data – 1st vertical derivative – with drill targets.

7.2 UAV-Borne Magnetic Survey

A high-resolution UAV-borne magnetic survey was completed for Xander Resources in the Timmins Nickel property by EarthEx Geophysical Solutions Inc. between April 12th to 16th. The survey was completed to provide a highly detailed magnetic map to aid in exploration mapping and drill-targeting development. Four small postage stamp grids were completed to both confirm historical magnetic/EM data geo-positioning and to provide better resolution for drill hole targeting. The Timmins Nickel grids comprises 175.6 line-kilometers with data acquired on 50 m spaced lines, with 500 m spaced tie-lines. Again, 3D magnetic inversion models were undertaken and advanced 2D data imagery was produced. The methodology and results can be found in Appendix 2 and Figure 6 below.

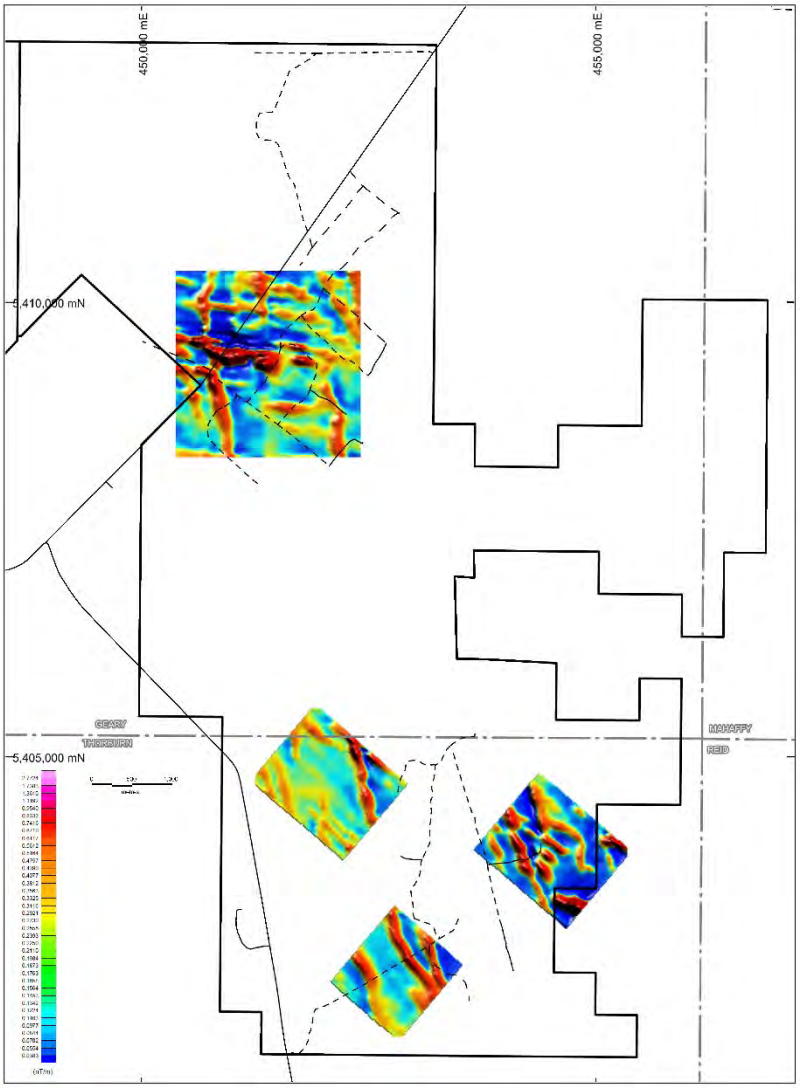


Figure 6. Location of high-resolution UAV magnetic suveys – 1st vertical derivative.

7.3 Mobile Metal Ion Soil Survey

The soil orientation survey described herein was designed to test magnetic trends and known drill hole geology with a single line of Mobile Metal Ion (MMI) soil. Given the lack of outcrop the soils data was to assist in the interpretation of the geophysical data.

The author completed three traverses between October 26th and 30th, 2021. Two traverses were over strong conductors, one with a magnetic signature and the other without, with the third traverse along strike of ultramafic lithologies documented in previous work but exhibiting no geophysical signature.

Samples were taken using a hand soil auger being careful not to compact the soil stratigraphy. Seventy-one MMI soil samples were taken 20-30 cm below the lowermost organic layer every 25 m (Figure 7). Traverse lines were competed using compass and pace with hole location recorded by GPS. The sample material was placed into heavy duty Ziploc sandwich bags. Field data for each sample was recorded on custom designed data sheets (see Appendix 3). Data collected included: sample number, sample location in both grid as well as UTM coordinates, altitude, depth, vegetation type, colour, sample type, topography, slope direction, texture, plus a section for noting comments or cultural features. A duplicate sample was taken at the beginning and end of each traverse line and every 10th sample afterwards. A total of three geochemical blank material were also inserted with six duplicates taken for analytical quality control.

Sample locations are shown on Map 1 in Appendix 3 with tabulated field notes and assay data present in Appendix 3. Assay certificates are located in Appendix 4.

7.4 Work log

October 26, 2021

Travel from Thunder Bay to Timmins.

October 27, 2021

Sunny, windy averaging 14°C. Located and travelled the Abitibi Access Road into the property checking the condition of the numerous trails. Parked and offloaded the ATV at

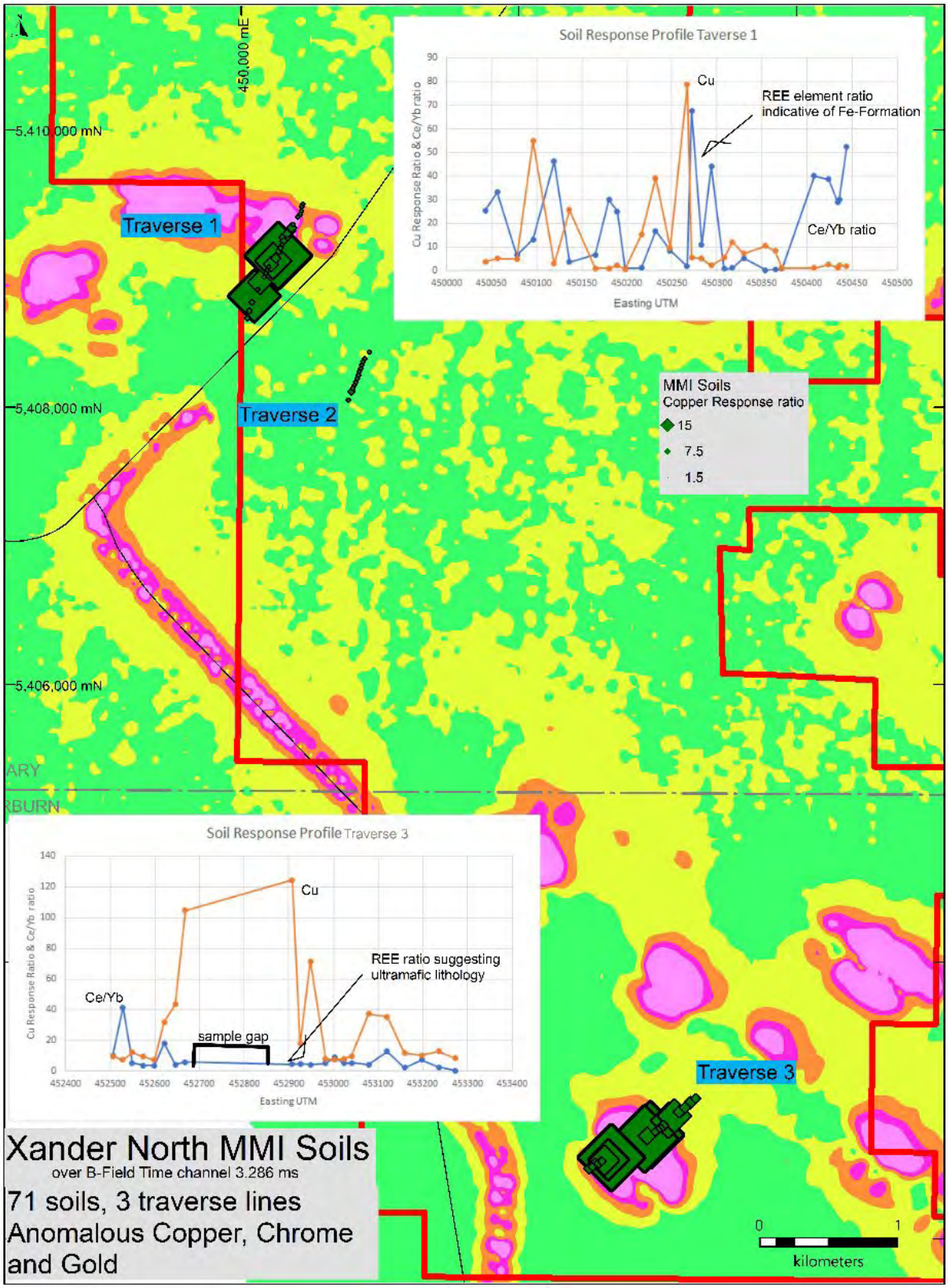


Figure 7. Location and interpretation of MMI soil results.

the former radio tower site. Worked through a cedar swamp to the eastern end of the first soil line on cell 655171 collecting soils XS1001 to XS1007.

October 28, 2021

Sunny clouding over, rain by 3 pm, 12 to 8°C. Continued soil survey on cell collecting soils XS1008 to XS1030. Checked out access for second traverse using ATV.

October 29, 2021

Frosty morning, sunny, warming to 8°C. Followed old skidder trail to beginning of soil line onto cell 627461. Sample line then traversed southwest across cell 627472 and ended on cell 628471. Soils XS1032 thru XS1046 were collected.

October 30, 2021

Very cold morning, sun/cloud mix, high of 4°C. Accessed the southern area of the property as far as possible by ATV. Proceeded east along skidder trail through flat wetland to eastern end of southern soil traverse on cell 627579. Started soil traverse proceeding west collecting soils XS1048 to XS1059. Thoroughly soaked footwear forced a retreat before the soil traverse could be completed.

October 31, 2021

Sunny, mixed sun and cloud, 8°C, Revisited traverse line on cells 627585 and 688522. Collected soils XS1061 to XS1071.

November 1, 2021

Dropped off samples at SGS prep lab in Corchane and travelled to Thunder Bay.

8.0 Conclusions and Recommendations

Processing of two separate historical VTEM surveys succeeded in merging and leveling the data to produce one coherent database. The high-resolution drone magnetic surveys provided a clear 3-dimensional view of the geology within the target areas. The orientation MMI soil survey lines illustrated that the technology was capable of remotely characterizing the bedrock within the target areas. Six priority-one targets have been picked with drill holes designed to test their potential for hosting Cu-Ni mineralization.

Further testing of the Nickel North property should include: soil sampling over the remaining untested VTEM conductors, an additional 200 line-km of drone magnetic surveying and finally 4,000 m of diamond drill testing. A budget of $1.4M is the proposed work for a Phase One program and $3.5M for a follow-on Phase Two program show Phase One results warrant it.

8.1 Proposed Budget

Phase	Category	Amount	Cost per	Cost
	VTEM Interp	500 km	5.5	2,750
	Drone Magentics	200 km	257	51,400
One	MMI Soils	500 soils	60	30,000
	Drilling	4,000 m	350	1,400,000
	(4000 m)		**Phase 1 Total**	$1,484,150
	Downhole EM	1,200 m	250	300,000
Two	Drilling	10,000 m	325	3,250,000
	(10,000 m)		**Phase2 Total**	$3,550,000

Table 2. Proposed Budget.

9.0 References

Amax Mineral Inc. (1979): Diamond Drill Report, Thorburn Township, Report No. 22, 14p. Assessment File Research Image (AFRI) database 42A13SE0043.

Ayer, J.A., Amelin, Y., Corfu, F., Kamo, S.L., Ketchum, J.W.F., Kwok, K. and Trowell, N.F. (2002a): Evolution of the southern Abitibi greenstone belt based on U-Pb geochronology: autochthonous volcanic construction followed by plutonism, regional deformation and sedimentation; Precambrian Research, v115, pp. 63-95.

Ayer, J.A., Ketchum, J.W.F. and Trowell, N.F. (2002b): New geochronological and neodymium isotopic results from the Abitibi greenstone belt, with emphasis on the timing and the tectonic implications of Neoarchean sedimentation and volcanism; In Summary of Field Work and Other Activities 2002, Ontario Geological Survey, Open File Report 6100, pp. 5-1 to 5-16.

Ayer, J.A., Thurston, P.C., Bateman, R., Dubé, B., Gibson, H.L., Hamilton, M.A., Hathway, B., Hocker, S.M., Houlé, M.G., Hudak, G., Ispolatov, V.O., Lafrance, B., Lesher, C.M., MacDonald, P.J., Péloquin, A.S., Piercey, S.J., Reed, L.E. and Thompson, P.H. (2005): Overview of results from the Greenstone Architecture Project: Discover Abitibi Initiative; Ontario Geological Survey, Open File Report 6154, 175p.

Cunnison, K. (2000): Diamond Drill Report, Thorburn Township Property, Thorburn Township, Porcupine Mining Division, 34p. Assessment File Research Image (AFRI) database 42A13SE2005.

Falconbridge Ltd. (1990): Diamond Drill Report, Geary Township, Report No. 22, 36p. Assessment File Research Image (AFRI) database 42A13SE0002.

(1989): Diamond Drill Report, Geary Township, Report No. 20, 20p. Assessment File Research Image (AFRI) database 42A13SE0008

Geotech Limited, (2007): Report on Helicopter-borne Versatile Time Domain Electromagnetic (VTEM) Geophysical Survey, Nickel North Block for SEDEX Mining Corp., Project 7085. Assessment File Research Image (AFRI) database 20000003737.

Geotech Limited, (2008): Report on Helicopter-borne Versatile Time Domain Electromagnetic (VTEM) Geophysical Survey, Thorburn Block for Mantis Mineral Corp., Project 8150. Assessment File Research Image (AFRI) database 20000003168.

Gulf Minerals Ltd., (1981): Diamond Drill Report. Geary Township, Report No. 18, 58pg., Assessment File Research Image (AFRI) database 42A13SE0015.

Hollinger Gold Mines, (1972): Diamond Drill Report, Thorburn Township, Report No.18, Assessment File Research Image (AFRI) database 42A13SE0058.

Houle, M.G. and Lesher, C.M. (2011): Komatiite-Associated Ni-Cu-(PGE) Deposits, Abitibi Greenstone Belt, Superior Province, Canada; Reviews in Economic Geology, v17, pp. 89–121.

Houle, M.G., Lesher, C.M., and Prefontaine, S. (2017): Physical Volcanology of Komatiites and Ni-Cu-(PGE) Deposits of the Southern Abitibi Greenstone Belt; In Archean Base and Precious Metal deposits, Southern Abitibi Greenstone Belt, Canada, Reviews in Economic Geology, v19, pp. 103-132.

Jackson, S.L. and Fyon, A.J. (1991): The western Abitibi Subprovince in Ontario; In Geology of Ontario, edited by P.C. Thurston, H.R. Williams, R.H. Sutcliffe and G.M. Stott, Ontario Geological Survey, Special Volume 4, pp. 405-482.

Lesher, M. and Keays, R. (2002). Komatiite-associated Ni-Cu-PGE deposits: Geology, mineralogy, geochemistry and genesis. The Geology, Geochemistry Mineralogy and Mineral Beneficiation of Platinum Group Elements.

MDI (2020): Mineral Deposit Inventory; Ontario Geological Survey, online database.

MEGATEM II (2002): Timmins Area MEGATEM: Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data,Geophysical Data Set 1041, Ontario Geological Survey Data Set 1041, 48p.

Mespi Mines Ltd, (1965): Diamond Drill Report, Thorburn Township, Report No.11, 6pg. Assessment File Research Image (AFRI) database 42A13SE0160.

Monecke, T., Mercier-Langevin, P., Dube, B., and Frieman, B.M. (2017): Geology of the Abitibi Greenstone Belt (Chapter 1); In Archean Base and Precious Metal deposits, Southern Abitibi Greenstone Belt, Canada, Reviews in Economic Geology, v19, pp. 7-49.

Noranda Exploration Ltd., (1991): Diamond Drill Report, Thorburn Township, Report No.34, 11pg., Assessment File Research Image (AFRI) database 42A13SE8905

MRD 126 (2011): Miscellaneous Release–Data 126 - Revision 1; Ontario Geological Survey, 1:250 000 scale bedrock geology of Ontario, Ontario Geological Survey.

MRD 155 (2005): Miscellaneous Release - Data - Digital Compilation of Maps and Data from the Greenstone Architecture Project in the Timmins-Kirkland Lake Region, Ontario Geological Survey.

Ontario Geological Survey (1998): Geological Compilation of the Timmins Area, Abitibi Greenstone Belt, PrecambrianGeology, Map P.3379.

Roger, D. (2006): Report on Diamond Drilling DDH GY21-01/02/02A & GY23-01, Falconhridge Limited – Exploration, Geary Township, Timmins, Ont. Porcupine Mining Division, NTS 42A-13 69p., ssessment File Research Image (AFRI) database 20000001348.

Ross, P.-S., Goutier, J., Legault, M., Grunsky, E., and Dube, B. (2009): New volcanological and geochemical observations from the Blake River Group, Abitibi Greenstone Belt, Ontario and Quebec: Tannahill Township and Lake Labyrinth Area.Geological Survey of Canada, Current Research 2009-8, 26p.

Sproule, R.A., Lesher, C.M., Ayer, J.A. and Thurston, P.C. (2003): Geochemistry and Metallogenesis of Komatiitic Rocks in the Abitibi Greenstone Belt, Ontario. Ontario Geological Survey, Open File Report 6073, 119p.

Sproule, R.A., Lesher, C.M., Houle, M.G., Keays, R.R., Ayer, J.A., and Thurston, P.C. (2005): Chalcophile Element Geochemistry and Metallogenesis of Komatiitic Rocks in the Abitibi Greenstone Belt, Canada. Economic Geology, v100, pp. 1169-1190.

St-Hilaire, C. (2019): Crawford Nickel Project: Interpretation Report 3D-Inversion of magnetic and Gravity Data, Reference P19-07-25. Prepared for Spruce Ridge Resources Ltd. by Geophysique Camille St-Hilaire Inc., August 2019, 53p.

Troup, W. R. (2012): A Report on the 2012 Exploration Program on the Property of Micon Gold Inc., Geary Township, Porcupine Mining Division, Ontario, Assessment File Research Image (AFRI) database 20000008942.

(2012): Geophysical Report for Micon Gold Inc. On the Geary Project, Porcupine Mining Division, Ontario, Assessment File Research Image (AFRI) database 20000007134.

Thurston, P.C., Ayer, J.A., Goutier, J., and Hamilton, M.A. (2008): Depositional Gaps in Abitibi Greenstone Belt Stratigraphy: A Key to Exploration for Syngenetic Mineralization. Economic Geology v103, pp. 1097-1134.

10.0 Certificate of Qualified Person

I, Andrew Tims, P.Geo., residing in Thunder Bay, Ontario do hereby certify that;

1. I am an independent consulting geologist since 2013

2. This certificate applies to the Assessment Report entitled “Timmins Nickel Property, North Block, 2022 Work Report, Geary, Mahaffy and Thornburn Townships” dated December 4, 2022 and am the principal author of this report.

3. I am a graduate of Carleton University, 1989 in geology and have been practicing continuously as a professional since graduation.

4. I am in good standing as a registered member of the Association of Professional Geoscientists of Ontario, Association of Professional Engineers and Geoscientists of the Province of Manitoba and the Order of Geologists of Quebec.

8. As of the date of this certificate and the effective date of the Assessment Report, to the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to by the Ministry of Northern Development and Mines.

10. I consent to the filing of the Assessment Report with Ministry of Northern Development and Mines for regulatory purposes, including electronic publication in their public database on their websites accessible by the public.

Dated at Thunder Bay, this 4th day of December 2022

{SIGNED AND SEALEI

Andrew Tims, P.Geo. Ontario Reg. No. 0274
317 Sillesdale Cr, Thunder Bay, Ontario P7C 1S7. Mobile (807) 358-6836

Appendix 1. VTEM Suvey Database

Magnetic Declination of 9°59'W

MAGNETIC TRUE

N

TMI (nT)

	Timmins Nickel - North Block
Date: 2022-12-05	**MERGED VTEM DATA**
Author: pgeo_tims	**TOTAL MAGNETIC INTENSITY**
Office:	
Drawing:	
Scale: 1:12500	Projection: UTM Zone 17 (NAD 83)

0 200 400 800

metres

450,000 mE
452,000 mE
454,000 mE
456,000 mE
5,412,000 mN
5,410,000 mN
5,408,000 mN
5,406,000 mN
5,404,000 mN

655194 655195 655175 655193 655204 655206 655212 655230 655225 655219
655192 655184 655190 655191 655201 655205 655214 655222 655223 655227
655173 655174 655180 655188 655209 655199 655211 655236 655224 655233
655183 655189 655179 655185 655198 655203 655215 655229 655221 655237
655187 655172 655178 655182 655208 655202 655216 655228 655217 655232
655176 655186 655177 655181 655207 655197 655210 655234 655235 655218
655170 655168 655169 655196 655200 655213 655226 655220 655231
655171 627498 627492 627475 627477 627469 627465
627483 627497 627466 627464 627500 627478 627480
627496 627472 627461 627463 627476 627481 627494
627470 627471 627473 627467 627485 627487 627482 627505 627503
627495 627491 627484 627462 627468 627493 627488 627504 627502
627489 627490 627499 627474 627479 627486 627501 627508
627527 627514 627532 627529 627510 627509 627507 627506
627531 627511 627528 627521 627518 627515 627516 627534 627513 627526
627517 627524 627519 627520 627530 627525 627533 627522 627512 627523
627550 627546 627547 627551 627548 627549 627540 627542 627543 627539 627544
627553 627552 627555 627557 627556 627554 627536 627541 627537 627538 627535
627574 627569 627564 627570 627562 627568 627558 627559 627560
627572 627573 627567 627565 627566 627575 627571 627563 627561
627577 627596 627584 627587 627588 627593 627576 627586
627598 627595 627583 627591 627585 627579 627590 627581
627594 627582 627578 627592 627589 627580 627597
688522 627601 627602 627599 627600

627674 627675 627676
627653 627664 627669
627658 627662 627665
627671 627659 627660
627655 627668 627661 627670
627667 627657 627663 627673
627666 627656 627654
627672
627545

Magnetic Declination of 9°59'W
MAGNETIC
TRUE
N

TMI
(nT)

Xander Resources

Timmins Nickel - North Block

MERGED VTEM DATA

MAGNETIC TILT DERIVATIVE

Date: 2022-12-05
Author: pgeo_tims
Office:
Drawing:
Scale: 1:12500
Projection: UTM Zone 17 (NAD 83)

0 200 400 800
metres

450,000 mE
452,000 mE
454,000 mE
456,000 mE
5,412,000 mN
5,410,000 mN
5,408,000 mN
5,406,000 mN
5,404,000 mN

655194 655195 655175 655193 655204 655206 655212 655230 655225 655219
655192 655184 655190 655191 655201 655205 655214 655222 655223 655227
655173 655174 655180 655188 655209 655199 655211 655236 655224 655233
655183 655189 655179 655185 655198 655203 655215 655229 655221 655237
655187 655172 655178 655182 655208 655202 655216 655228 655217 655232
655176 655186 655177 655181 655207 655197 655210 655234 655235 655218
655170 655168 655169 655196 655200 655213 655226 655220 655231
655171 627498 627492 627475 627477 627469 627465
627483 627497 627466 627464 627500 627478 627480
627496 627472 627461 627463 627476 627481 627494
627470 627471 627473 627467 627485 627487 627482 627505 627503
627495 627491 627484 627462 627468 627493 627488 627504 627502
627489 627490 627499 627474 627479 627486 627501 627508
627527 627514 627532 627529 627510 627509 627507 627506
627531 627511 627528 627521 627518 627515 627516 627534 627513 627526
627517 627524 627519 627520 627530 627525 627533 627522 627512 627523
627550 627546 627547 627551 627548 627549 627540 627542 627543 627539 627544
627553 627552 627555 627557 627556 627554 627536 627541 627537 627538 627535
627574 627569 627564 627570 627562 627568 627558 627559 627560
627572 627573 627567 627565 627566 627575 627571 627563 627561
627577 627596 627584 627587 627588 627593 627576 627586
627598 627595 627583 627591 627585 627579 627590 627581
627594 627582 627578 627592 627589 627580 627597
688522 627601 627602 627599 627600

627674 627675 627676
627653 627664 627669
627658 627662 627665
627671 627659 627660
627655 627668 627661 627670
627667 627657 627663 627673
627666 627656 627654
627672
627545

Magnetic Declination of 9°59'W
MAGNETIC
TRUE
N

67906
67451
67262
67216
67263
67238
67212
67102
67174
67160
67166
67134
67122
67110
67100
67086
67089
67072
67062
67052
67042
67032
67022
67012
67002
66992
66982
66972
66962
66952
66942
66932
66918
66908
66898
66872
66832
66776

TMI
(nT)

Xander Resources

	Timmins Nickel - North Block
Date: 2022-12-05	**MERGED VTEM DATA**
Author: pgeo_tims	**FIRST VERTICAL DERIVATIVE**
Office:	
Drawing:	
Scale: 1:12500	Projection: UTM Zone 17 (NAD 83)

0 200 400 800
metres

450,000 mE
452,000 mE
454,000 mE
456,000 mE
5,412,000 mN
5,410,000 mN
5,408,000 mN
5,406,000 mN
5,404,000 mN

655194 655195 655175 655193 655204 655206 655212 655230 655225 655219
655192 655184 655190 655191 655201 655205 655214 655222 655223 655227
655173 655174 655180 655188 655209 655199 655211 655236 655224 655233
655183 655189 655179 655185 655198 655203 655215 655229 655221 655237
655187 655172 655178 655182 655208 655202 655216 655228 655217 655232
655176 655186 655177 655181 655207 655197 655210 655234 655235 655218
655170 655168 655169 655196 655200 655213 655226 655220 655231
655171 627498 627492 627475 627477 627469 627465
627483 627497 627466 627464 627500 627478 627480
627496 627472 627461 627463 627476 627481 627494
627470 627471 627473 627467 627485 627487 627482 627505 627503
627495 627491 627484 627462 627468 627493 627488 627504 627502
627489 627490 627499 627474 627479 627486 627501 627508
627527 627514 627532 627529 627510 627509 627507 627506
627531 627511 627528 627521 627518 627515 627516 627534 627513 627526
627517 627524 627519 627520 627530 627525 627533 627522 627512 627523
627550 627546 627547 627551 627548 627549 627540 627542 627543 627539 627544
627553 627552 627555 627557 627556 627554 627536 627541 627537 627538 627535
627574 627569 627564 627570 627562 627568 627558 627559 627560
627572 627573 627567 627565 627566 627575 627571 627563 627561
627577 627596 627584 627587 627588 627593 627576 627586
627598 627595 627583 627591 627585 627579 627590 627581
627594 627582 627578 627592 627589 627580 627597
688522
627601 627602 627599 627600
627674 627675 627676
627653 627664 627669
627658 627662 627665
627671 627659 627660
627655 627668 627661 627670
627667 627657 627663 627673
627666 627656 627654
627672
627545

Magnetic Declination of 9°59'W
MAGNETIC
TRUE
N

0.4373
0.3823
0.3345
0.2926
0.2559
0.2238
0.1958
0.1712
0.1497
0.1310
0.1146
0.1002
0.0876
0.0766
0.0670
0.0586
0.0513
0.0448
0.0392
0.0343
0.0300
0.0262
0.0230
0.0201
0.0176
0.0154
0.0134
0.0117
0.0103
0.0090
0.0079
0.0069
0.0060
0.0053
0.0046
0.0040
0.0035
0.0031

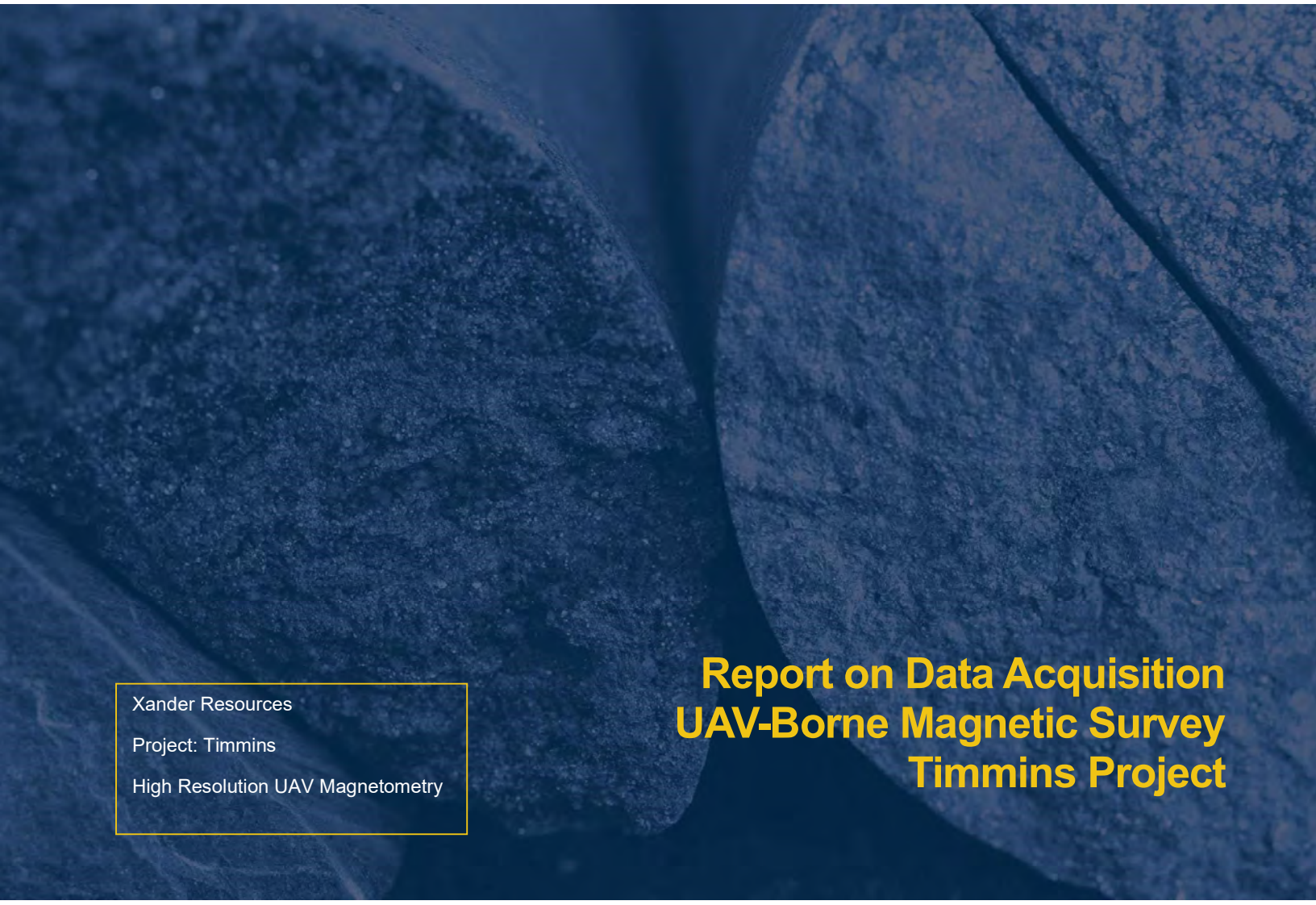
B-Field 1.151 ms
(pV*ms)/(A*m^4)

Xander Resources

	Timmins Nickel - North Block
Date: 2022-12-05	**MERGED VTEM DATA**
Author: pgeo_tims	**BFIELD CONDUCTANCE MAP**
Office:	
Drawing:	
Scale: 1:12500	Projection: UTM Zone 17 (NAD 83)

0 200 400 800
metres

Appendix 2. UAV-borne Magnetic Survey



Xander Resources

Project: Timmins

High Resolution UAV Magnetometry

Report on Data Acquisition
UAV-Borne Magnetic Survey
Timmins Project

Report Date	Coordinate System	Prepared By
September 2022	UTM Zone -17N – NAD83	Daniel Card P.Geo, RPGeo – EarthEx Geophysical Solutions

Summary

A high resolution UAV-borne magnetic survey has been completed for Xander Resources in the northern Timmins area. The survey was completed to provide a highly detailed magnetic map to aid in exploration mapping and drill-targeting in the area. The Timmins grids comprises 175.6 line kilometers with data acquired on 50 m spaced lines, with 500 m spaced tie-lines.

Overall excellent quality data were acquired, and the survey went smoothly. The daily log for the survey is provided in Appendix A. Quality control, surveying equipment and parameters, a survey log and a summary of deliverables are provided below. The general location of the survey is presented in Figure 1 and the survey block, and the line path is presented in Figure 2.

Figure 1: General location of the Timmins project.

Figure 2: Flight path of the UAVMAG survey block over the northern Timmins claims fabric.

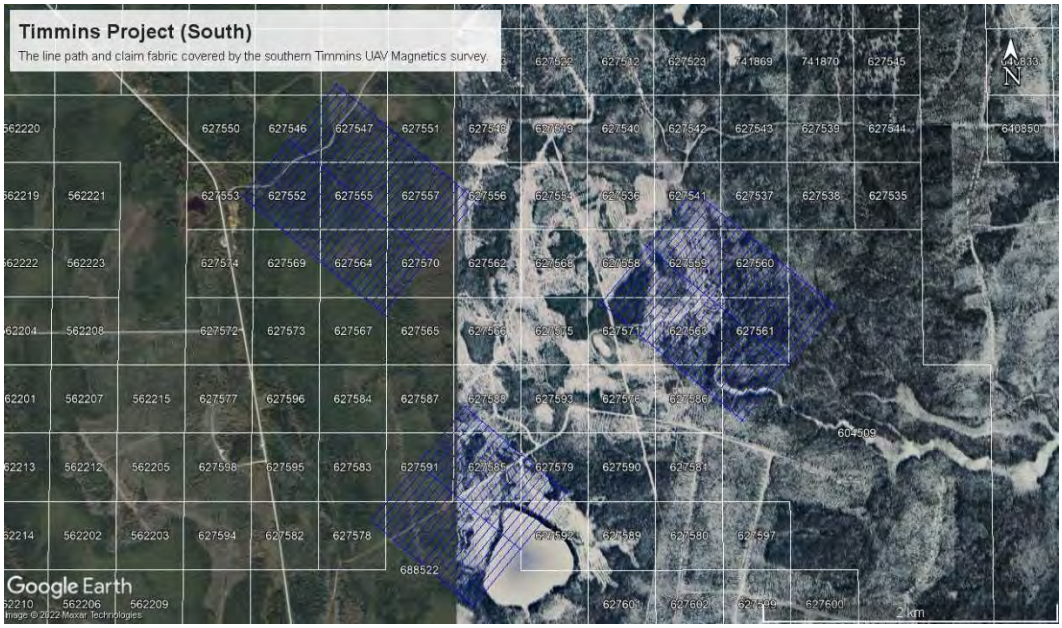


Figure 3: Flight path of the UAVMAG survey block over the southern Timmins claims fabric.

The following claim numbers were covered by the survey:

Timmins: 655181, 655207, 655197, 655210, 655234, 655235, 655169, 655196, 655200, 655213, 655226, 655220, 655171, 627498, 627492, 627475, 627477, 627469, 627483, 627497, 627466, 627464, 627500, 627478, 627496, 627472, 627461, 627463, 627476, 627476, 627530, 627546, 627547, 627551, 627553, 6227552, 627555, 627557, 627556, 627569, 627564, 627570. 627567, 627541, 627537, 627558, 627559, 627560, 627571, 627563, 627561, 627586, 604509, 627588, 627591, 627585, 627579, 627578, 688522, 627592

System Description

EarthEx's UAV magnetometry system is focussed on maximizing data resolution while maintaining optimum mission accuracy and efficiency. The quality of any airborne magnetometry mission to capture the highest resolution data is dependent largely upon its ability to accurately record the sensor's path and drape the topography at a low average terrain clearance.

Unlike other UAV mounted systems, EarthEx's UAV system employs an automatic obstacle avoidance system, which allows it to fly with a sensor drape performance of 5m above local obstacles. It is the only system with this capability in Western Canada. This is a significant advantage, allowing us to collect data down to 25m line-spacing or below, without oversampling, throughout most of the Canadian landscape. This is something that cannot be achieved without the automatic obstacle avoidance system, which allows our aircraft to fly with the magnetometer just above the canopy, automatically avoiding any taller trees which may stand in its path. Other UAV systems, without this technology, must fly higher to avoid collisions, so do not deliver any improvements on resolution by surveying with lines closer than 40m spaced. This is the reason which we are able to provide the cleanest, most detailed magnetic maps of any airborne platform on the market.

The EarthEx UAV system comprises:

- DJI Matrice Pro 600 airborne platform.
- RTK Telemetric navigation hardware.
- Scintrex Cs-VL – Cesium Vapor Magnetometer.
- Proprietary navigation system with automatic obstacle avoidance.
- GEM Overhauser or Proton Precession base station.

The combination provides the safest and most precise UAV magnetometry system operating today. The enhanced precision of this system is ideal for all applications where detailed geological mapping is desired.

UAV Magnetic Survey

The survey parameters for the survey block are shown in Table 1. The statistics were calculated to provide a quick assessment of the magnitude of magnetic anomalism in the data and is outlined in Table 2.

Table 1: Survey parameters for the UAVMAG survey data

Block ID	Data Format	Date Surveyed	Line Kms	Line Spacing/Tie line Spacing	Mean Terrain Clearance	Azimuth
Timmins Block A	GDB	2022-08-15	92.5	50/500	30	0°
Timmins Block B	GBD	2022-08-15	30.7	50/500	30	40°
Timmins Block C	GBD	2022-08-15	22.0	50/500	30	40°
Timmins Block D	GBD	2022-08-15	30.4	50/500	30	40°

Table 2: Statistics of magnetic anomalism in the dataset.

Block ID	IGRF nT	IGRF Inclination (°)	IGRF Declination (°)	Minimum nT	Maximum nT	Mean nT	Range nT	Standard Deviation nT
Timmins	55617.2	73.2	-10.0	-1115.3	1327.4	-755.5	2442.7	285.7

A statistical analysis of tree heights was performed based on the Canada Trees database, followed by calibration flights on the grid to map actual tree heights for comparison. An average terrain clearance of 30 m was then selected for the survey.

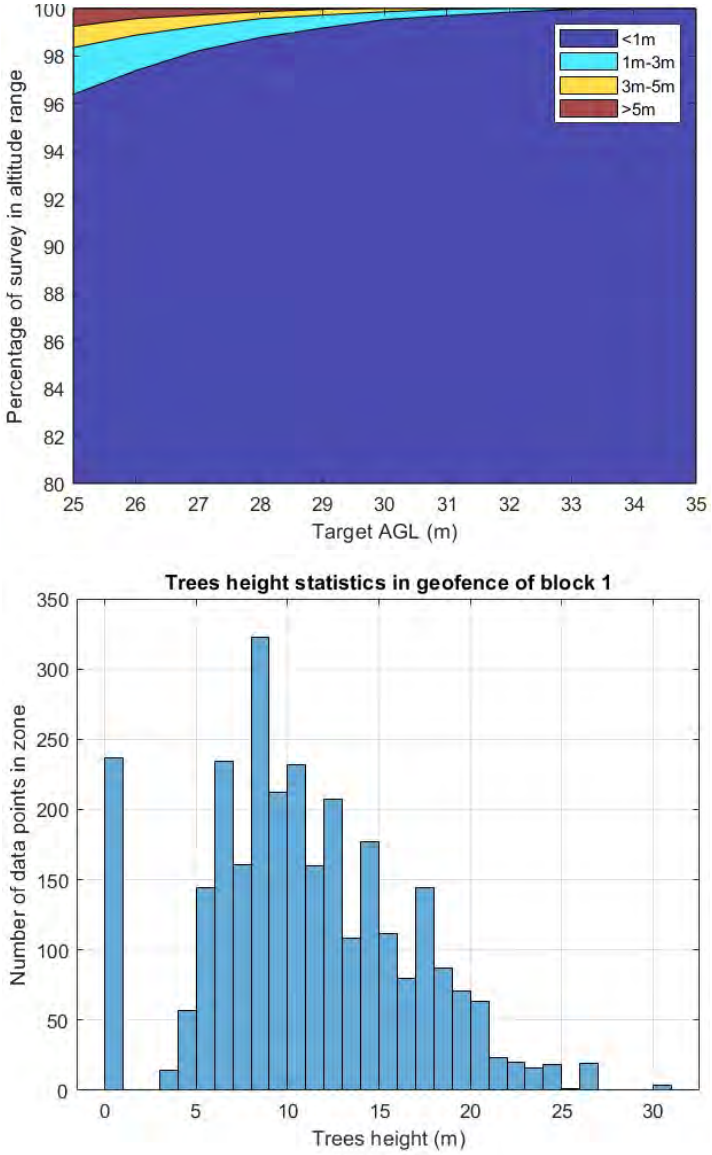


Figure 4: Timmins Block A AGL analysis and tree height statistics. An average terrain clearance of 30 m was then selected for the survey

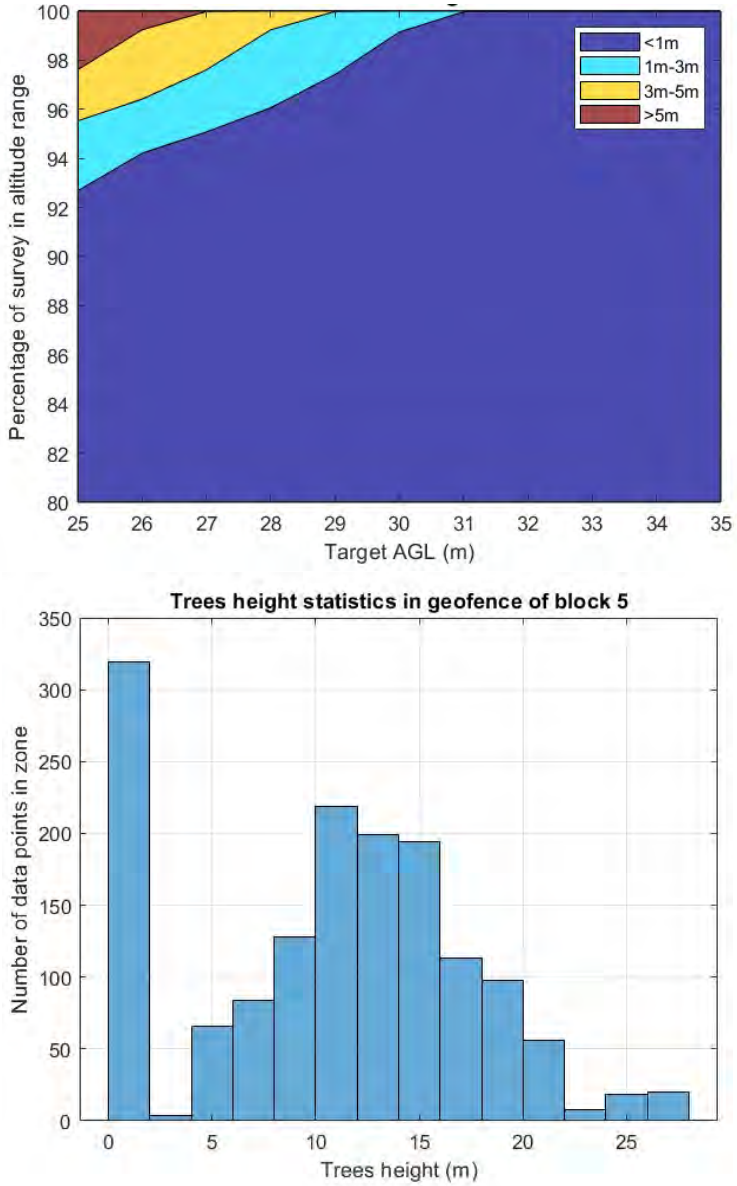


Figure 5: Timmins Block B AGL analysis and tree height statistics. An average terrain clearance of 30 m was then selected for the survey

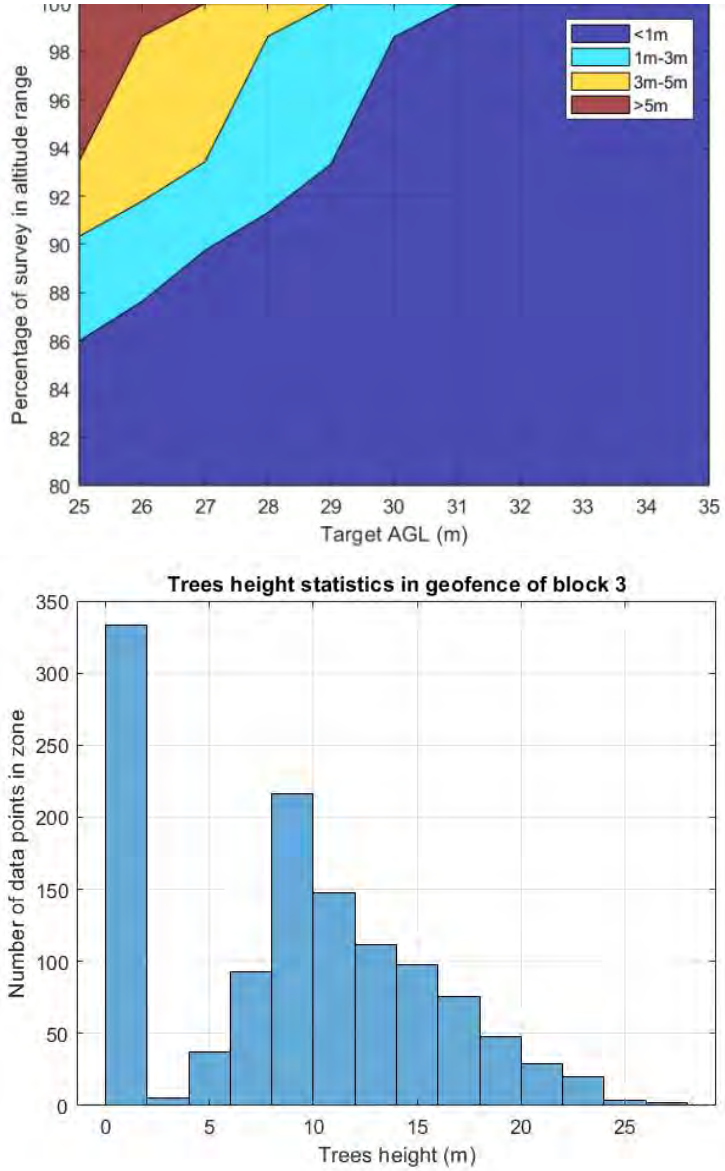


Figure 6: Timmins Block C AGL analysis and tree height statistics. An average terrain clearance of 30 m was then selected for the survey

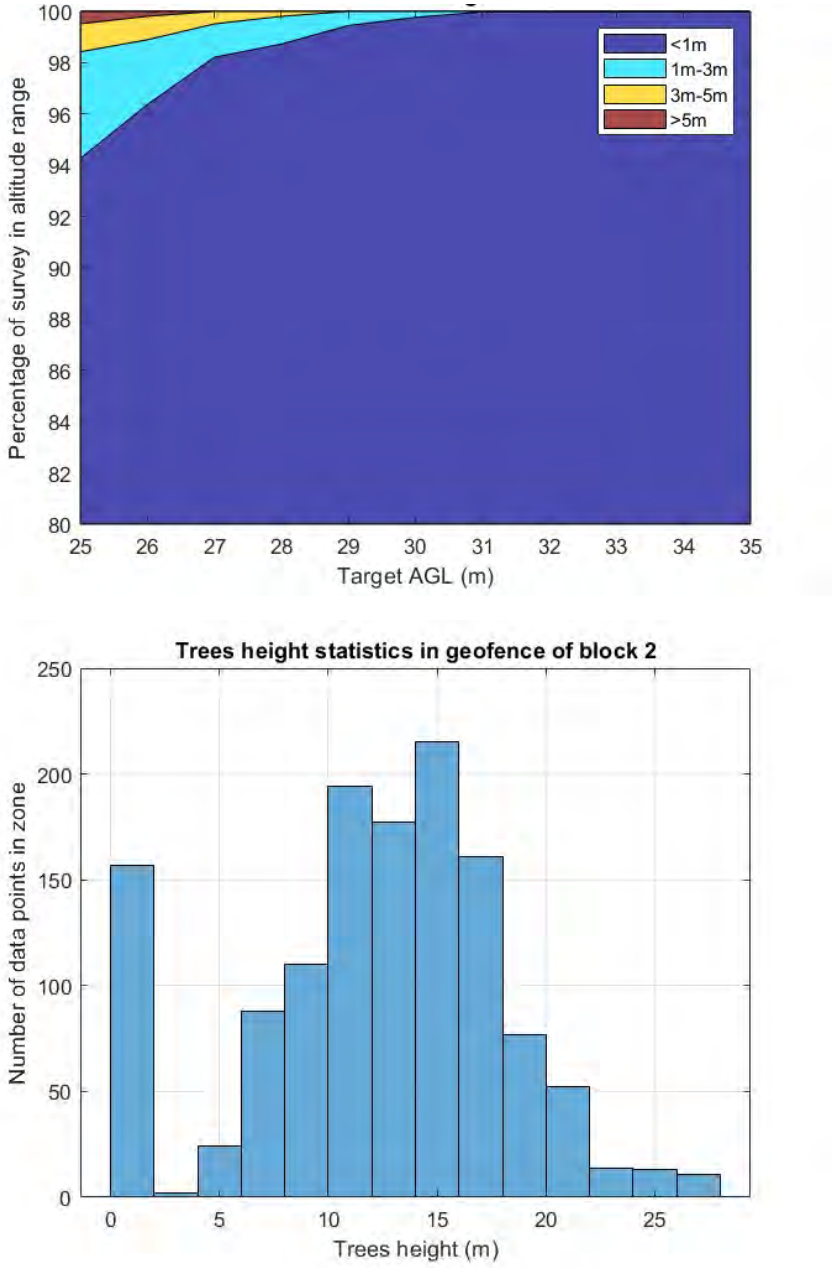


Figure 7: Timmins Block D AGL analysis and tree height statistics. An average terrain clearance of 30 m was then selected for the survey

Residual magnetic intensity (RMI) and the first derivative of the residual magnetic intensity (RMI_1vd) are presented for the Timmins grid in a linear 0.5% percent clip colour stretch in Figures 8, 9, 10 and 11. The RMI and RMI_1vd with a histogram-equalized non-linear stretch are presented for the grid in Figures 12, 13, 14 and 15. These colour stretches are designed to prevent outliers from skewing the images and serve to highlight the greatest number of features (non-linear stretch) and clearly define the strongest and weakest features (linear stretch).

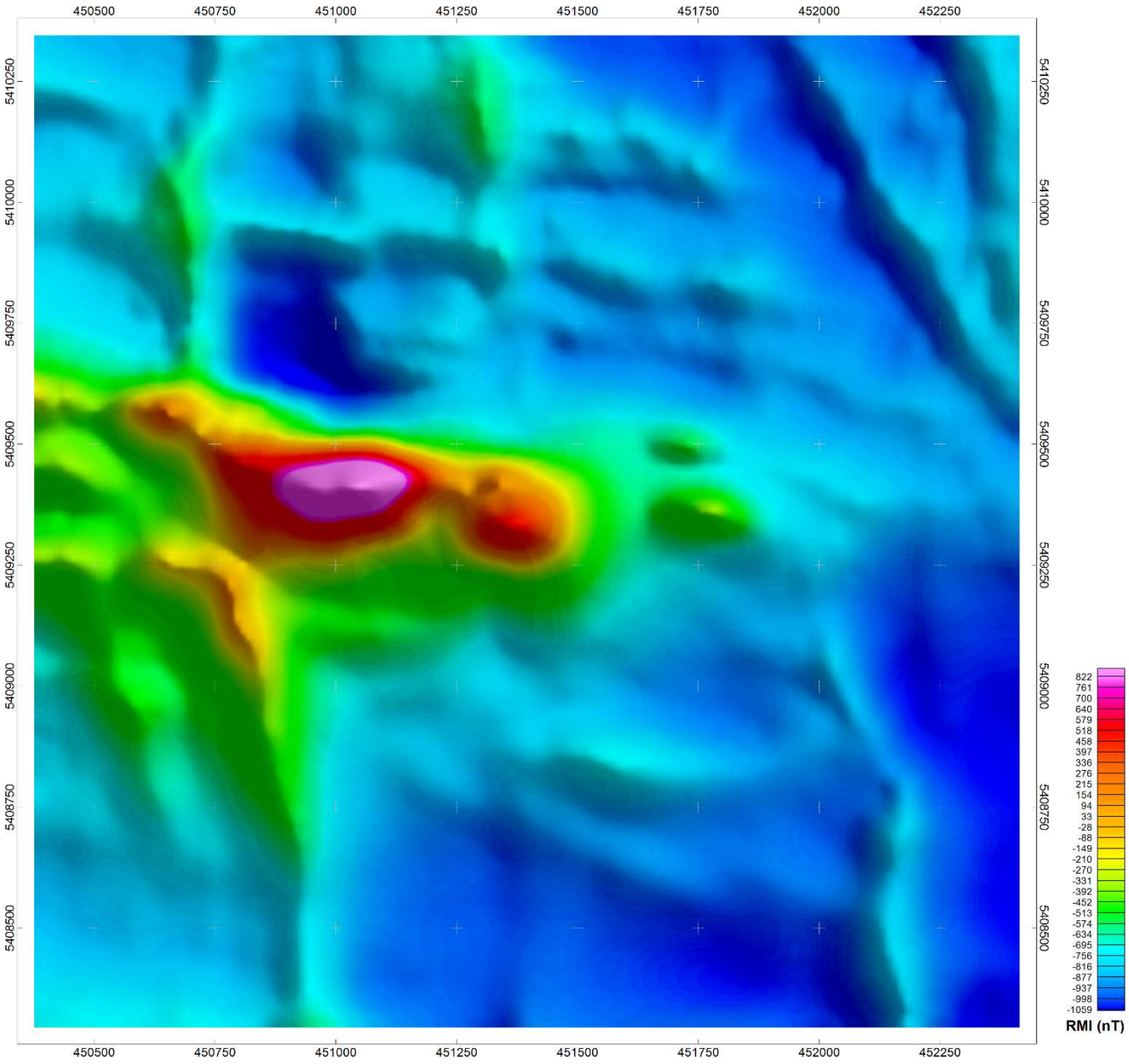


Figure 8: Residual magnetic intensity for north Timmins using a linear 0.5% clip colour stretch.

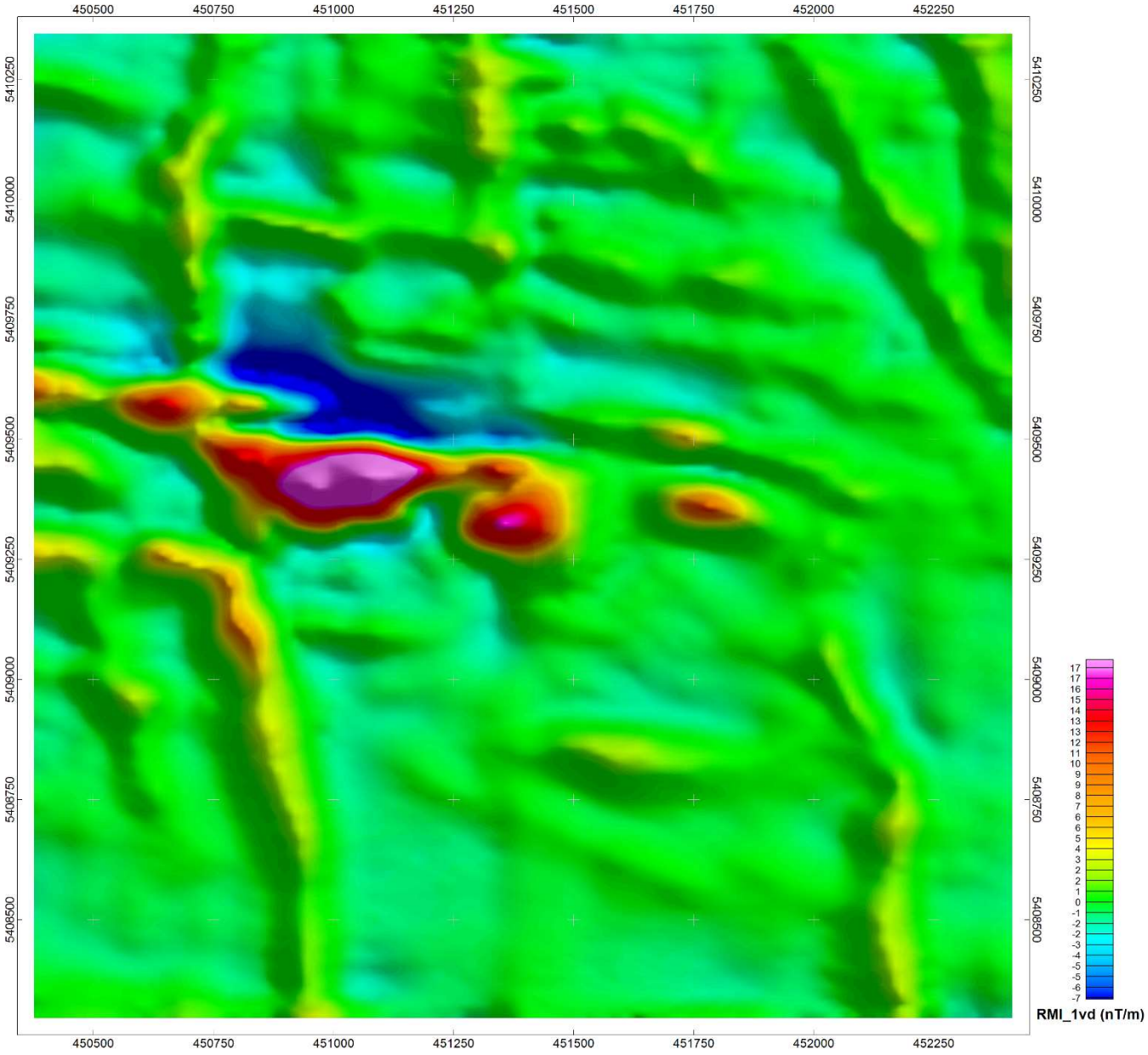


Figure 9: First vertical derivative of the residual magnetic intensity for north Timmins using a linear 0.5% clip colour stretch.

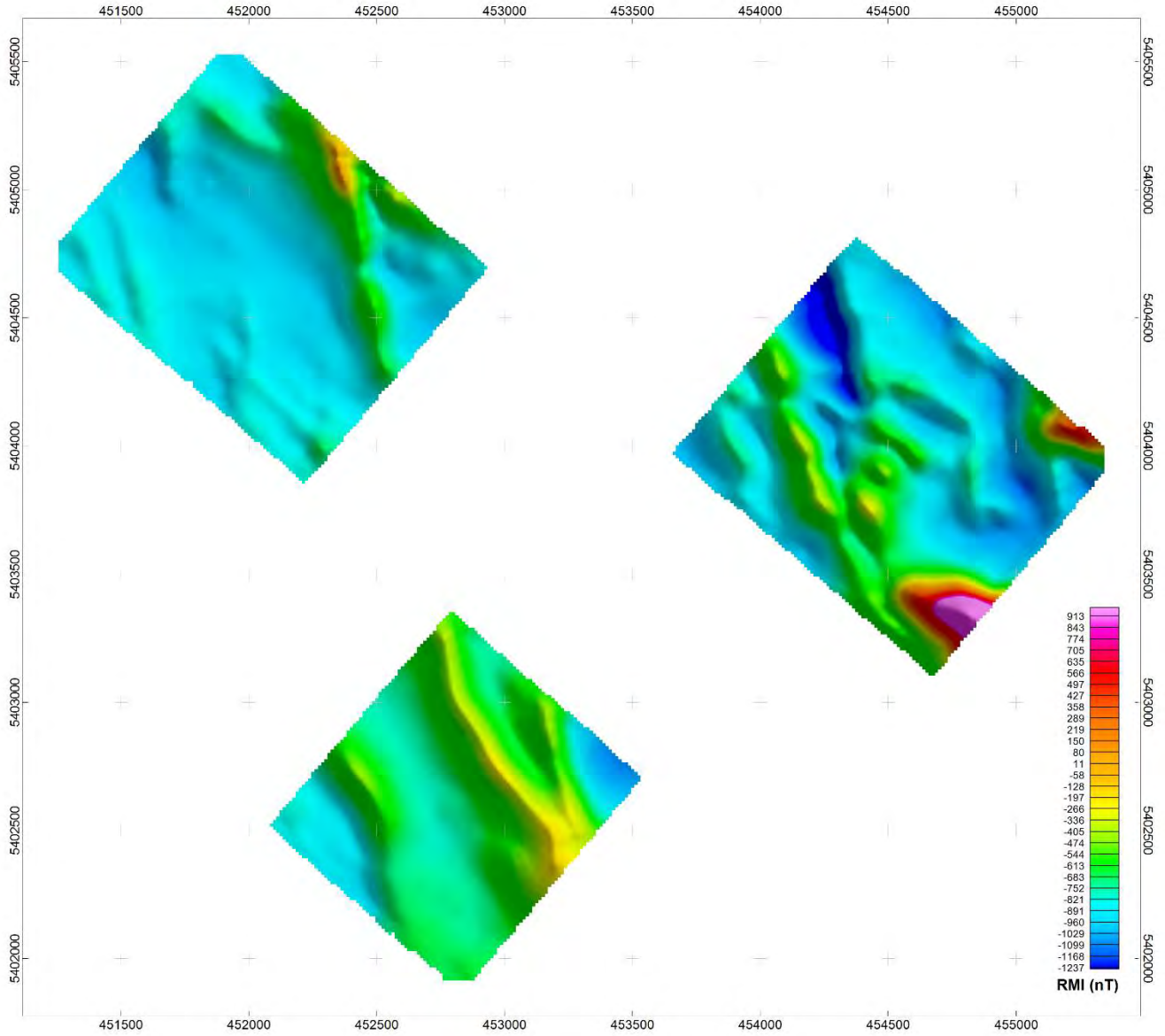


Figure 10: Residual magnetic intensity for south Timmins using a linear 0.5% clip colour stretch.

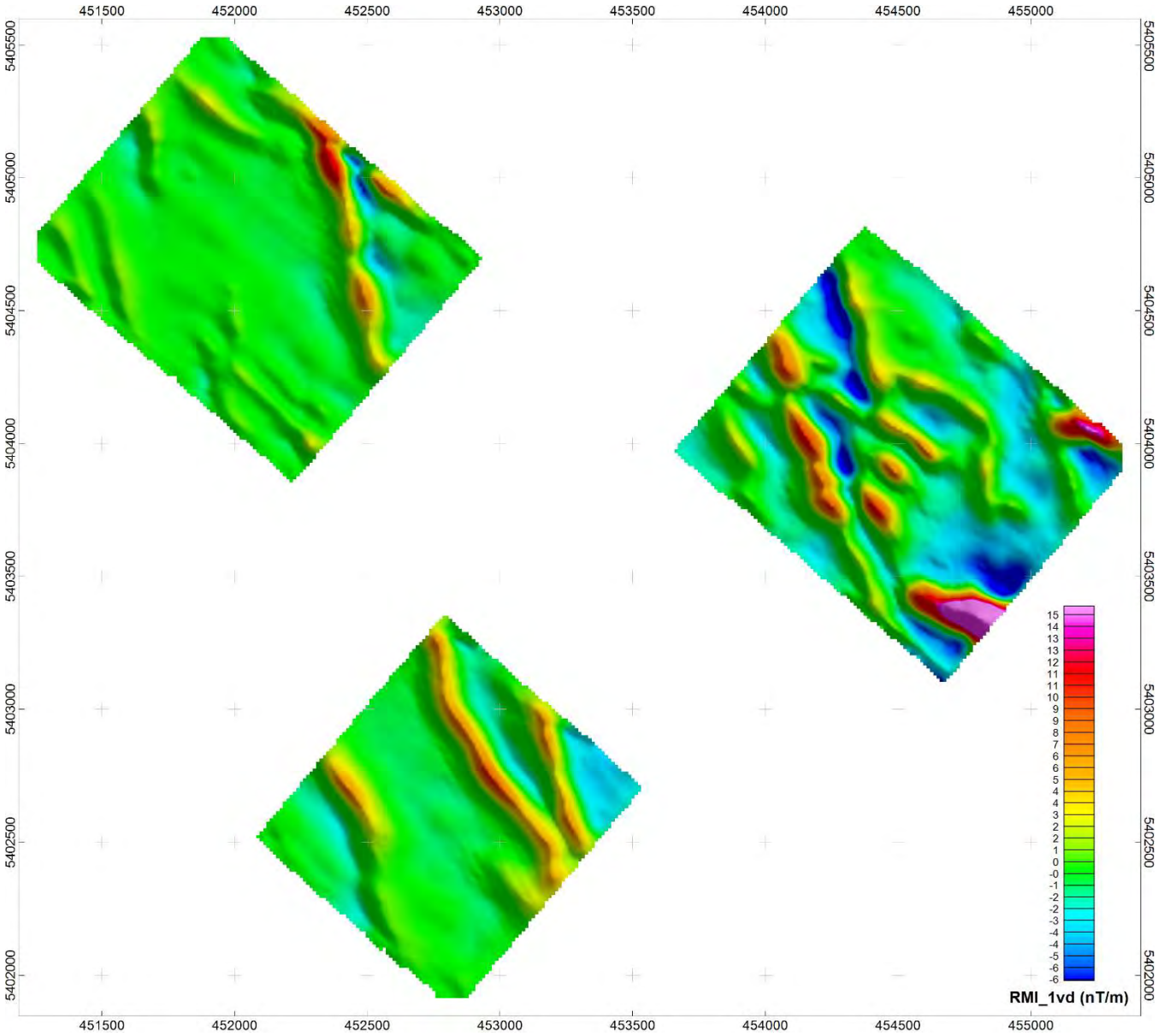


Figure 11: First vertical derivative of the residual magnetic intensity for south Timmins using a linear 0.5% clip colour stretch

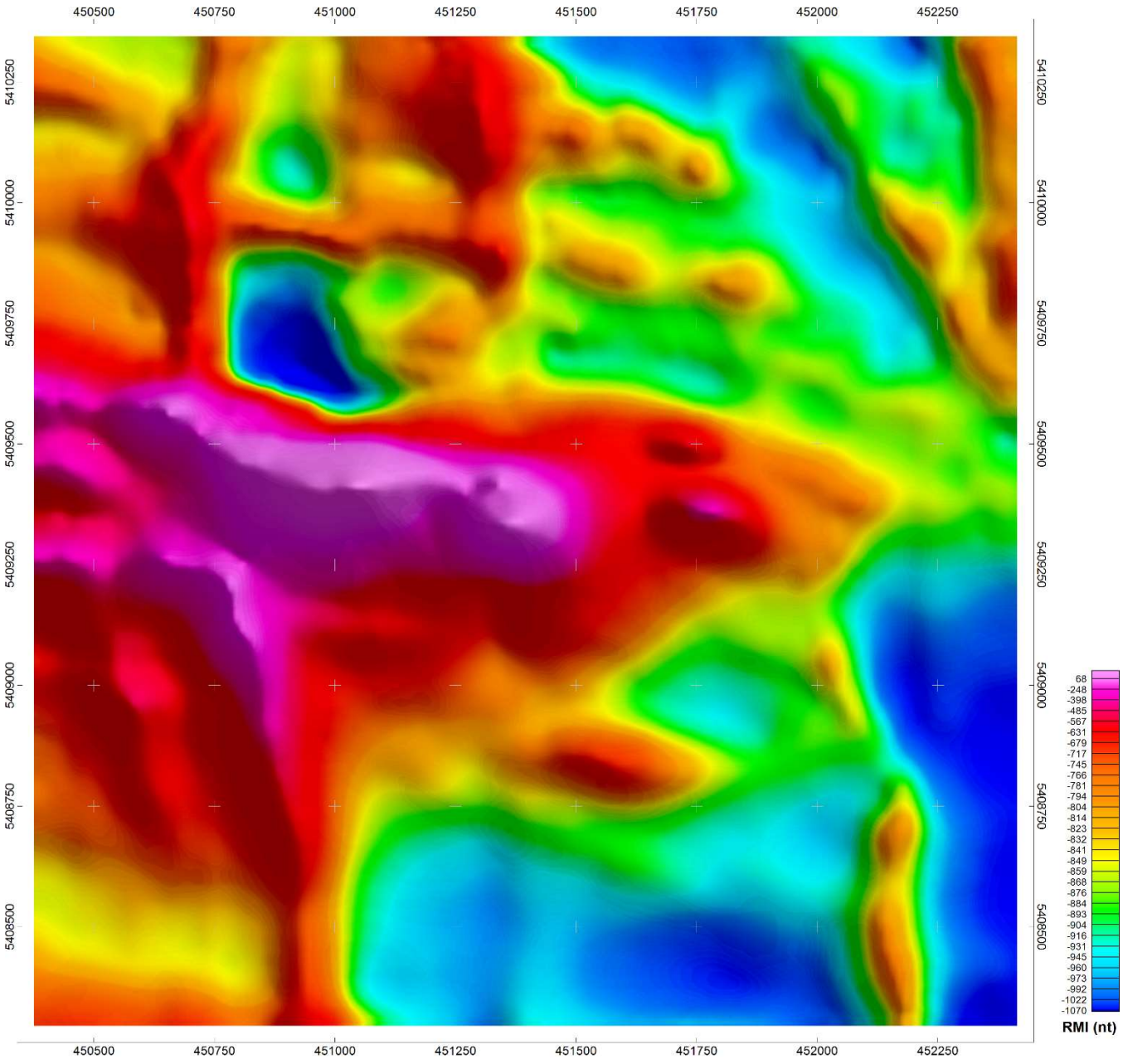


Figure 12: Residual magnetic intensity for north Timmins with a non-linear colour stretch.

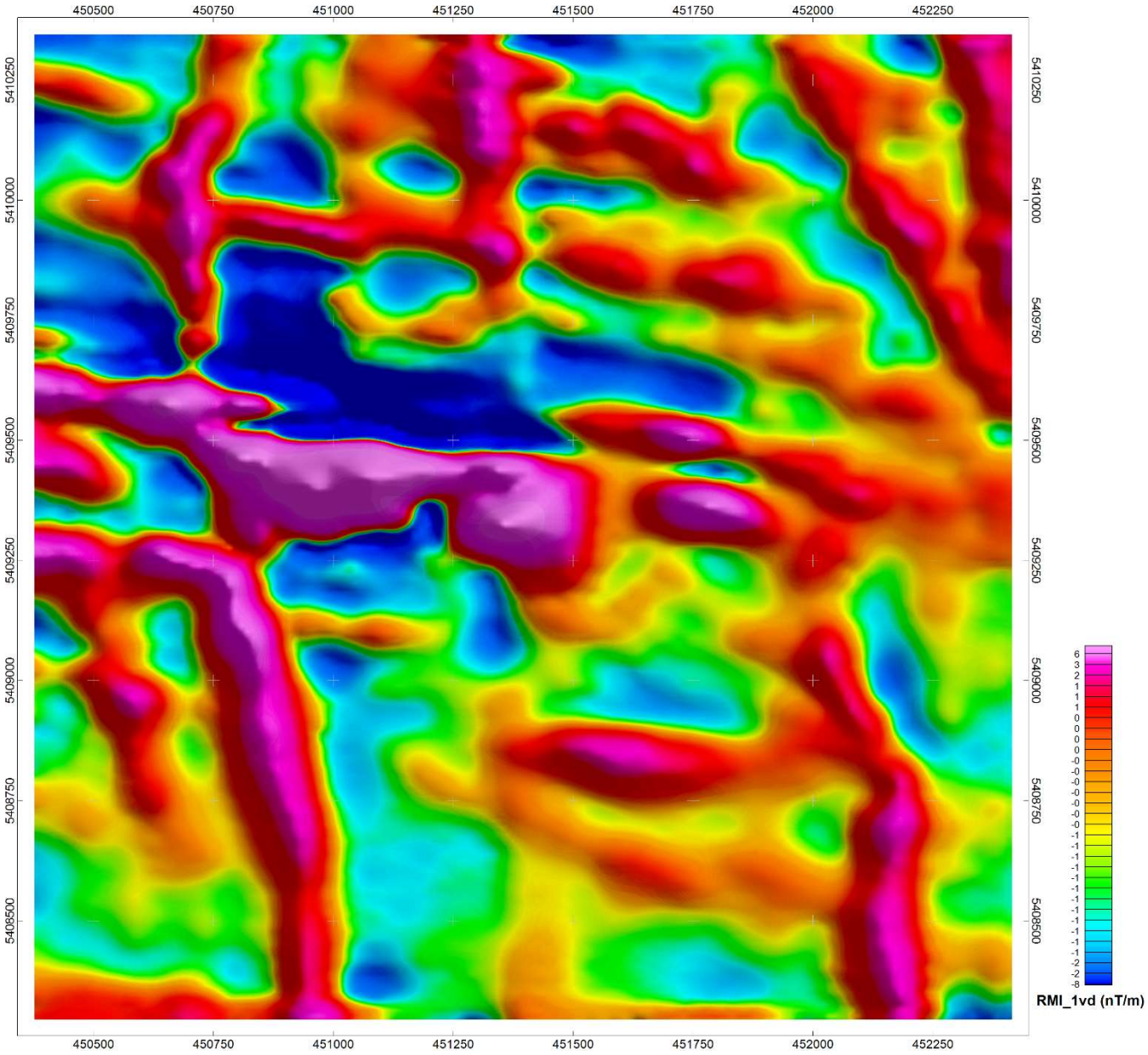


Figure 13: First vertical derivative of the residual magnetic intensity for north Timmins with a non-linear colour stretch.

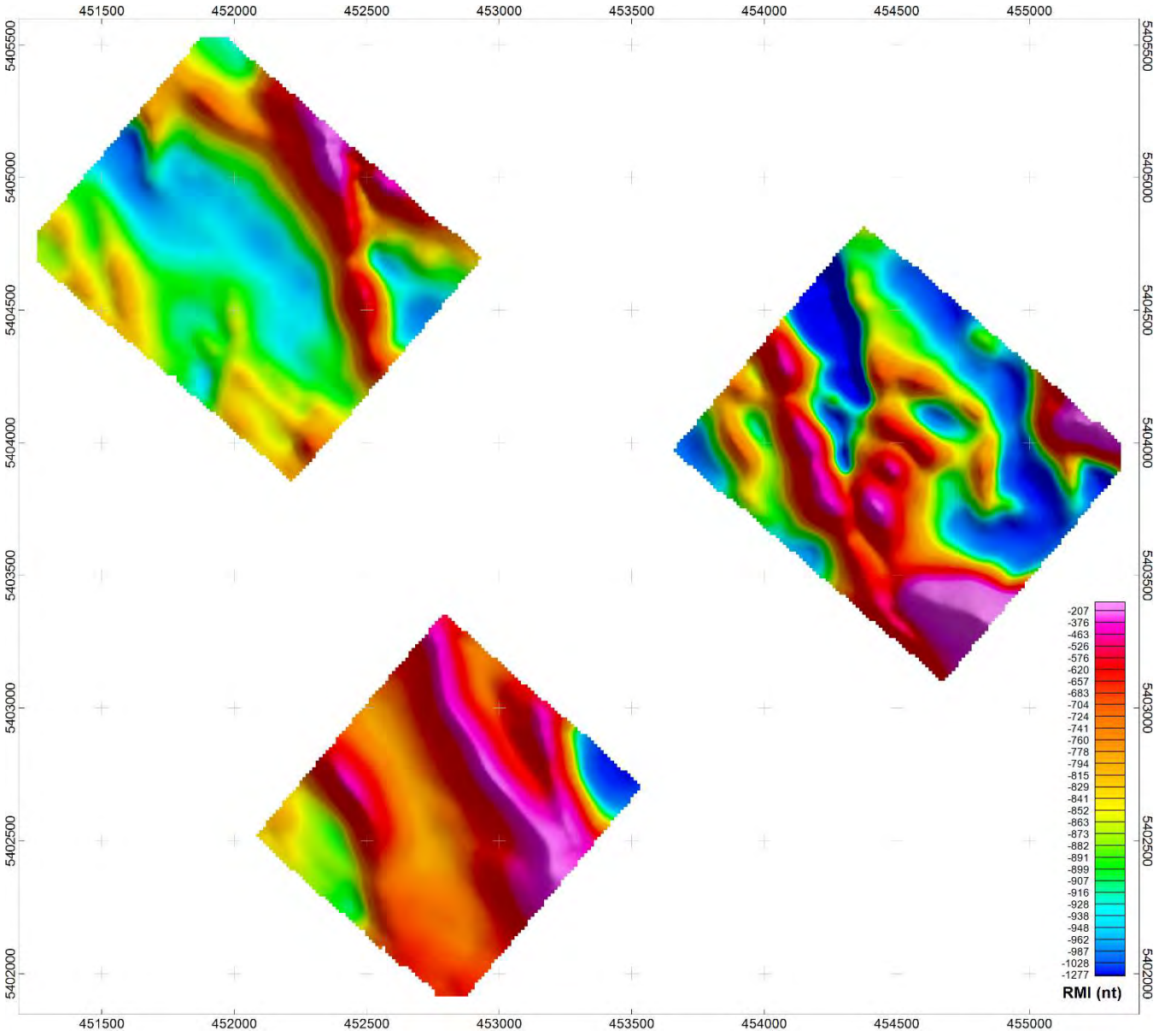


Figure 14: Residual magnetic intensity for south Timmins with a non-linear colour stretch.

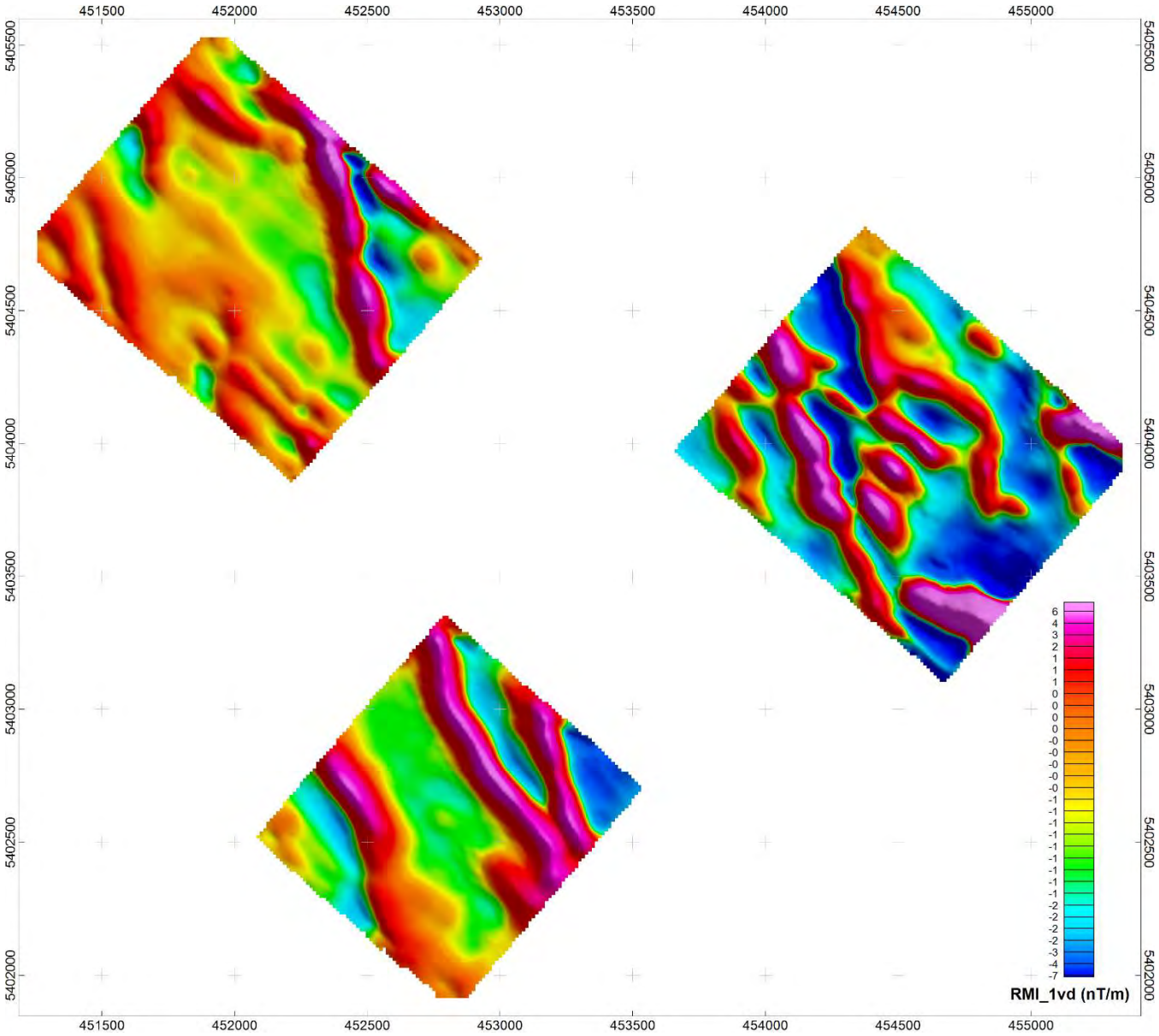


Figure 15: First vertical derivative of the residual magnetic intensity for south Timmins with a non-linear colour stretch.

Deliverables

UAV MAG Deliverables

- UAV MAG survey database in Geosoft Database (.GDB) and Comma Separated Values (.CSV) format. The databases in Geosoft Database format contain the channels listed in Table 3.
- Residual magnetic intensity and first vertical derivative maps for Timmins, delivered in Portable Document Format (.PDF).
- Grids of residual magnetic intensity and first derivative of residual magnetic intensity in Geosoft .GRD format.

Table 3: Geosoft Database description

Channel Name	Description
Line	Line number
Date_UTC_YYYY_MM_DD	Date in UTC format
Time_UTC__HH_MM_SS_SSS	Time in UTC format
Latitude	WGS84 GPS latitude (decimal degrees)
Longitude	WGS84 GPS longitude (decimal degrees)
UTM_x	Easting (meters) – NAD83 UTM 17N
UTM_y	Northing (meters) – NAD83 UTM 17N
UTM_Zone	UTM zone for UTM_x and UTM_y
Mag_ASL_m	Altitude above sea level (metres)
Mag_AGL_m	Altitude above ground level (metres)
Mag_TMI_Ground_Base__nT	Base station total magnetic field measurements (nT)
Mag_TMI_Uncorrected__nT	Uncorrected total magnetic field data (nT)
Mag_TMI_Corrected__nT	Diurnally corrected total magnetic field data (nT)
Mag_TMI_Final__nT	Final processed total magnetic field data (nT)
Tot	International Geomagnetic Reference Field (IGRF) – Total magnetic field (nT)
Inc	International Geomagnetic Reference Field (IGRF) – Inclination (degrees)
Dec	International Geomagnetic Reference Field (IGRF) – Declination (degrees)

We thank you for the opportunity to work with you and hope that the services we have delivered are of great utility in your exploration efforts. If you have any questions or requests, please do not hesitate to get in touch. We are here to support you however possible.

We look forward to working with you again soon.

Sincerely,

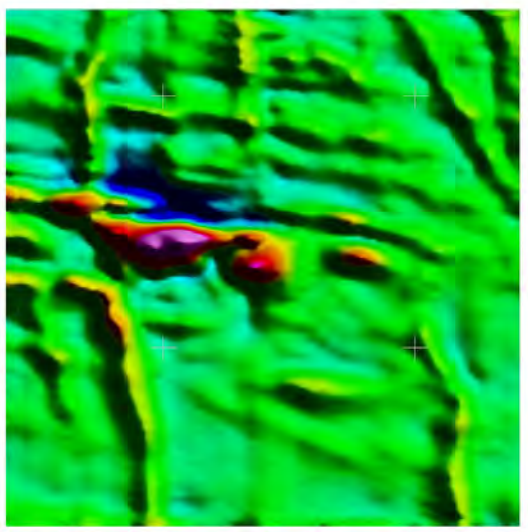
Daniel Card, P.Geo, RPGeo

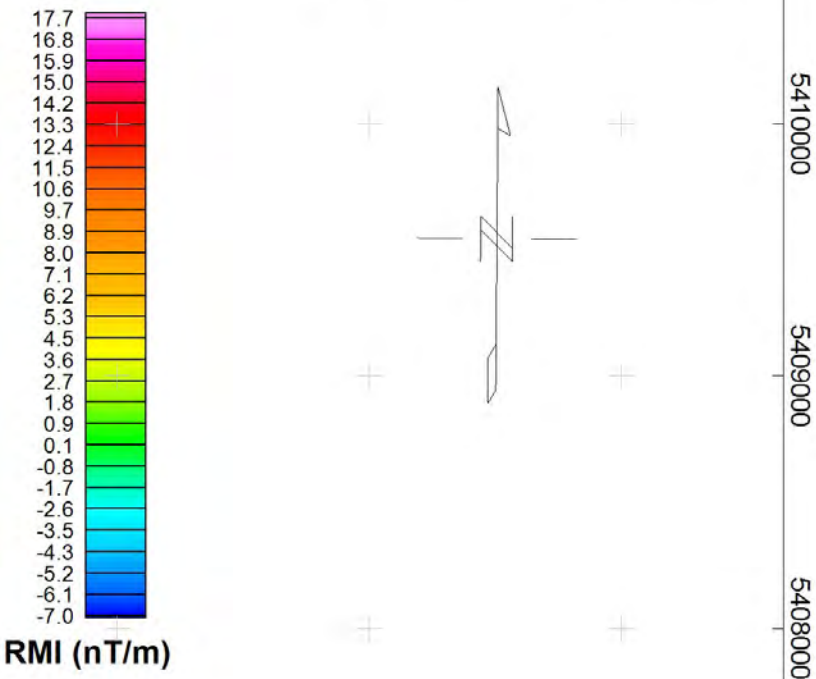
Principal Geophysicist. EarthEx Geophysical Solutions Inc.

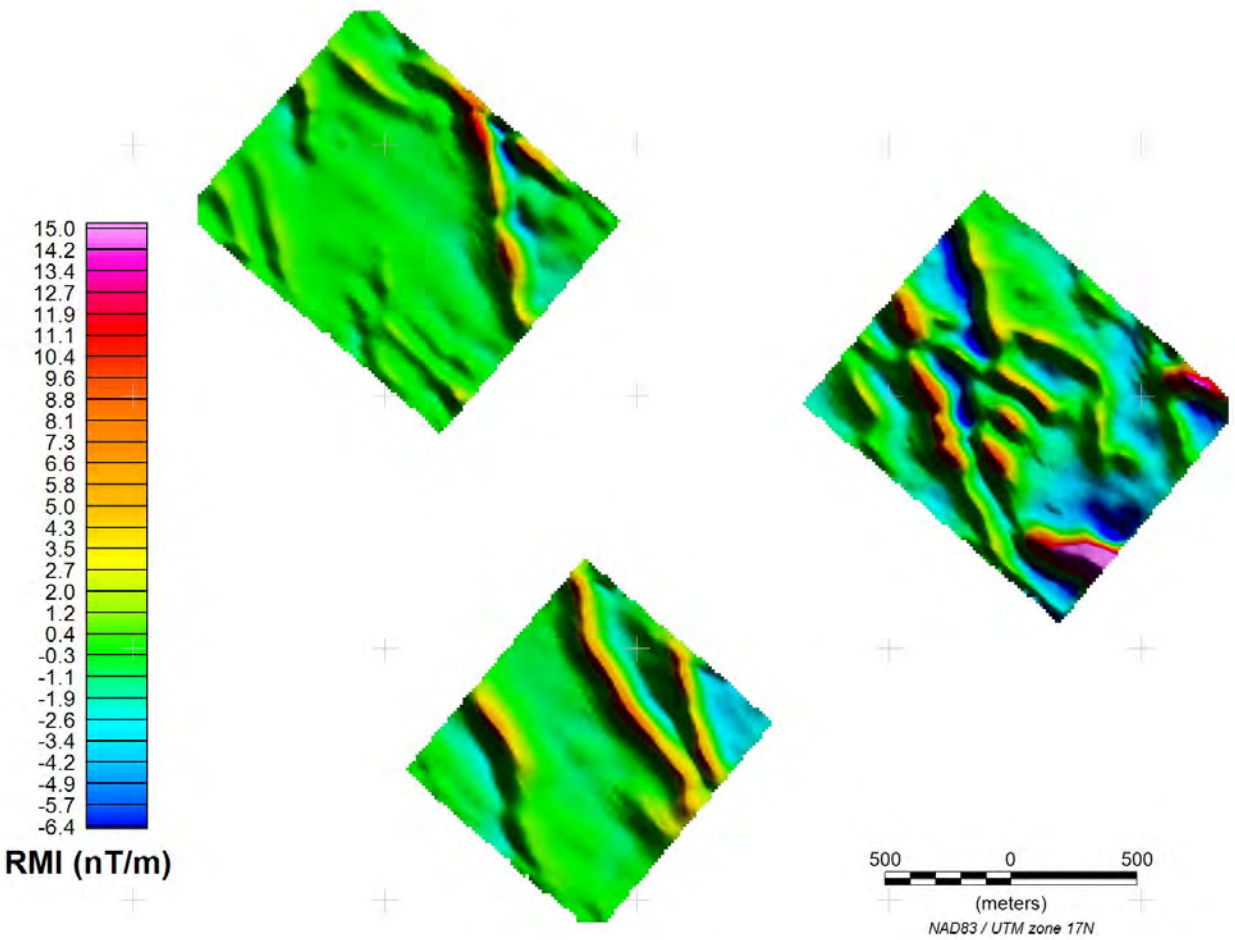
Appendix A: Daily Log

Table 4: Daily log for the Timmins UAV Mag project.

Date	Mobilization and Demobilization (days)	System Assembly and Tests (days)	Production (km)	Standby (days)	Details
August 12, 2022	1				Mobilization
August 13, 2022			1		Crew started production.
August 14, 2022			1		Crew continued production.
August 15, 2022			1		Crew completed production.
August 16, 2022	1				Demobilization







Xander Resources

Xander Resources
Timmins Project

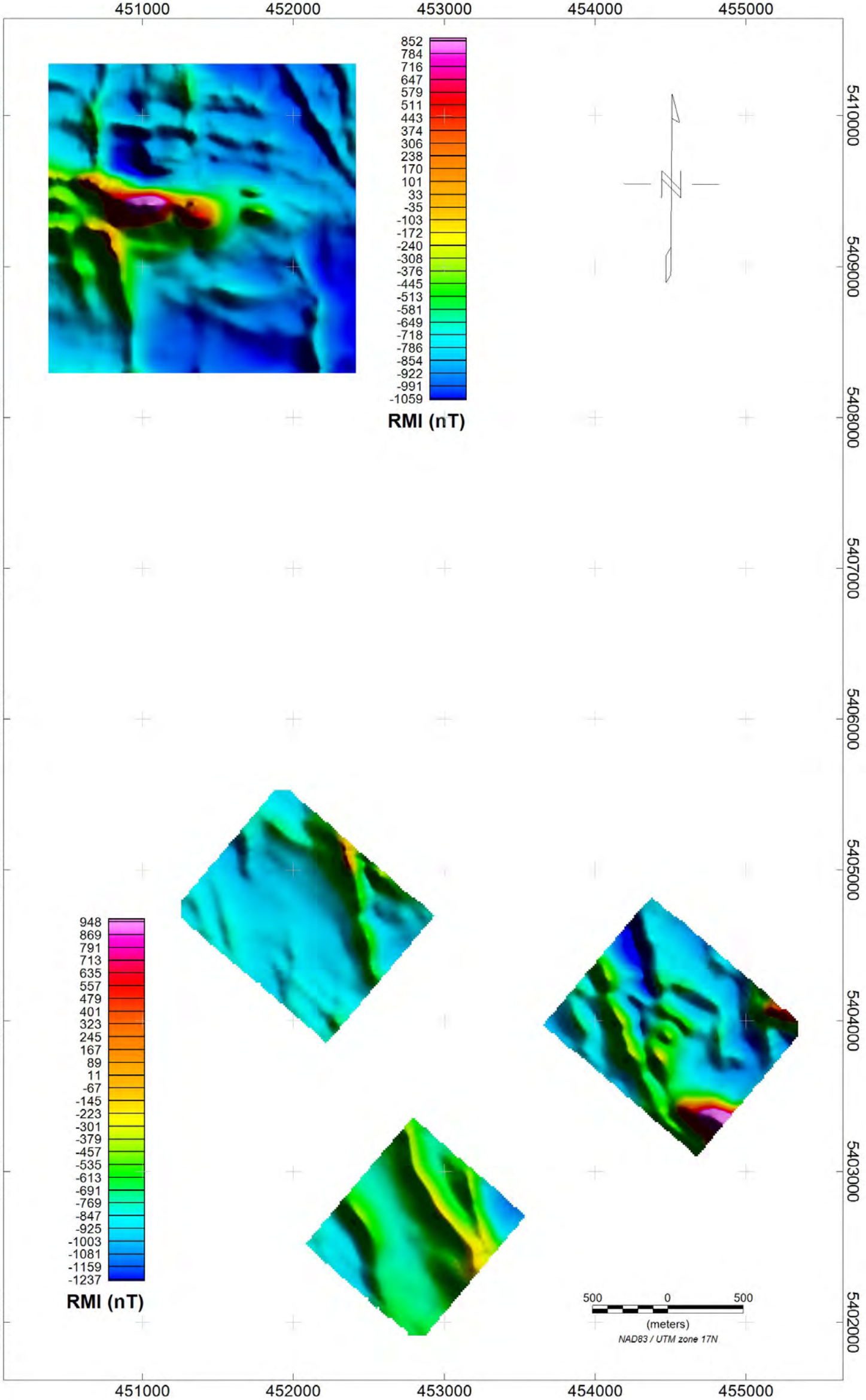
UAV-Borne Magnetics: First Vertical Derivative of the Residual Magnetic Intensity (RMI_1vd_lin)

Survey Specifications:
Survey Date: 2022-08-12 to 2022-08-15
Survey Base: Timmins, Ontario
Survey Line Spacing: 50 m
Survey Line Direction: 0° and 40°
Tie Line Spacing: 500 m
Tie Line Direction: 90° and 130°
Nominal AGL: 30 m

UAV System:
DJI Matrice Pro 600
RTK Telemetric Navigation
Automatic Obstacle Avoidance System
Scintrex Cesium Vapor Magnetometer
GEM Overhauser Base Station

Created by: EarthEx Geophysical Solutions
Date: September 2022
22-470_Xander_Timmins_UAVMAG

earthex



Xander Resources

Xander Resources
Timmins Project

UAV-Borne Magnetics: Residual Magnetic Intensity (RMI_lin)

Survey Specifications:
Survey Date: 2022-08-12 to 2022-08-15
Survey Base: Timmins, Ontario
Survey Line Spacing: 50 m
Survey Line Direction: 0° and 40°
Tie Line Spacing: 500 m
Tie Line Direction: 90° and 130°
Nominal AGL: 30 m

UAV System:
DJI Matrice Pro 600
RTK Telemetric Navigation
Automatic Obstacle Avoidance System
Scintrex Cesium Vapor Magnetometer
GEM Overhauser Base Station

Created by: EarthEx Geophysical Solutions
Date: September 2022
22-470_Xander_Timmins_UAVMAG

earthex

Xander Resources Inc.

Project: Timmins

Advanced Processing and Inversion.
High Resolution UAV Magnetometry

Advanced Processing and 3D Inversion of UAV-Borne Magnetic Survey Data

Report Date	Coordinate System	Prepared By
October 2022	UTM Zone 17N – NAD83	Daniel Card P.Geo, RPGeo – EarthEx Geophysical Solutions

Summary

EarthEx Geophysical Solutions Inc. have produced 3D magnetic inversion models and advanced 2D data imagery using the high-resolution UAV magnetic data collected on the Timmins survey block. The methodology and results are discussed in this report.

Project Area

The Xander Resources property is located northwest of Timmins, Ontario, Canada (Figure 1). The Timmins survey covers four grids for a total of 175.6 l-km with line spacing of 50 m and tie lines flown at 500 m. The line path of the Timmins survey is presented in Figure 2.

Figure 1: General location of the Timmins project.

Figure 2: Flight path of the UAVMAG survey block over the northern Timmins claims fabric.

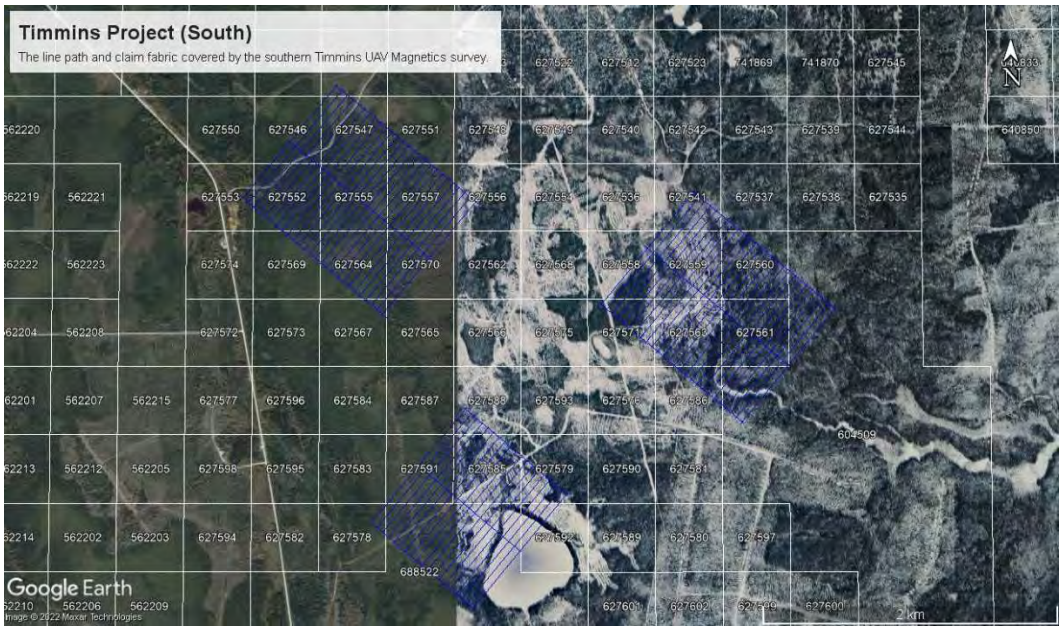


Figure 3: Flight path of the UAVMAG survey block over the southern Timmins claims fabric.

The following claim numbers were covered by the survey:

Timmins: 655181, 655207, 655197, 655210, 655234, 655235, 655169, 655196, 655200, 655213, 655226, 655220, 655171, 627498, 627492, 627475, 627477, 627469, 627483, 627497, 627466, 627464, 627500, 627478, 627496, 627472, 627461, 627463, 627476, 627476, 627530, 627546, 627547, 627551, 627553, 627552, 627555, 627557, 627556, 627569, 627564, 627570. 627567, 627541, 627537, 627558, 627559, 627560, 627571, 627563, 627561, 627586, 604509, 627588, 627591, 627585, 627579, 627578, 688522, 627592

Table 1: Parameters for the UAV-magnetic survey.

Block ID	Data Format	Date Surveyed	Line Kms	Line Spacing/Tie line Spacing	Mean Terrain Clearance	Azimuth
Timmins Block A	GDB	2022-08-15	92.5	50/500	30	0°
Timmins Block B	GBD	2022-08-15	30.7	50/500	30	40°
Timmins Block C	GBD	2022-08-15	22.0	50/500	30	40°
Timmins Block D	GBD	2022-08-15	30.4	50/500	30	40°

Methodology

Magnetic Processing and Imagery

The data were treated with several quality control and processing steps as follows:

1. Statistics were calculated, recorded, and analyzed to provide a quick assessment of the magnitude of magnetic anomalism of the data. This is outlined below in Table 2.
2. Appropriate filters and control files were designed based on their parameters such as flight height, line spacing, data quality and orientation of the Earth's magnetic field at the time of surveying.
3. A convolution filter was applied to remove ringing artefacts from levelled data for higher order derivatives. This was applied with the purpose of smoothing out unnecessary noise, while preserving magnetic data and retaining geological information.
4. From the final processed residual magnetic intensity data (RMI), the following grids are produced:
    a. First vertical derivative of the residual magnetic intensity (RMI)_1vd.
    b. Second vertical derivative of the residual magnetic intensity (RMI_2vd)
    c. The residual magnetic intensity reduced to pole (RTP)
    d. First vertical derivative of the reduced to pole (RTP_1vd)
    e. Second vertical derivative of the reduced to pole (RTP_2vd)
    f. Analytic Signal calculated from the residual magnetic intensity (AnSig)
    g. Tilt calculated from the residual magnetic intensity (RMI_TILT)
    h. The horizontal tilt derivative of the residual magnetic intensity (RMI_TILTHD)
5. An imagery suite is produced for each grid with a variety of colour ranges. For example, the RMI is delivered with the following colour ranges:
    a. Non-linear distribution (histogram equalization)
    b. Non-linear with no shading effects
    c. Non-linear in black and white
    d. Linear distribution
    e. Linear with a 0.5% histogram clip
    f. Linear with a 2 or 5% histogram clip
    g. Linear with no shading effects
    h. Normal distribution
6. Three custom EarthEx interpretive views (iView) that maximize structural detail while retaining the magnetic intensity information using hybridized imaging algorithms using:
    a. The RMI, RMI_1vd and RMI_2vd (iView)
    b. The RMI and RMI_TILT (iView #2)
    c. The RMI, RMI_1vd and RMI_2vd (iView #3)

Table 2: Statistics of magnetic anomalism in the dataset.

Block ID	IGRF nT	IGRF Inclination (°)	IGRF Declination (°)	Minimum nT	Maximum nT	Mean nT	Range nT	Standard Deviation nT
Timmins	55617.2	73.2	-10.0	-1115.3	1327.4	-755.5	2442.7	285.7

3D Magnetic Inversion

A series of inversions were completed using VOXI-3D-susceptibility inversion code. These inversions implemented one mesh with a cell size of 10x10x5 m (X,Y,Z) for Timmins North (Block A) and 16x16x8 m (X,Y,Z) for Timmins South (Block B, C, and D) which allowed the entire UAVMAG data set to be inverted in a single mesh. The data sets can be further divided into sub-sets to specific areas of interest to improve the model resolution in the near-surface for those areas.

The input magnetic data for the inversion is the final RMI grid for Timmins North and South. The input digital elevation model (DEM) is a provided by the Shuttle Topography Radar mission (SRTM 1 Arc Second) available online, which was used to extend coverage of the DEM and provide elevation data over the padding of the inversion mesh.

Inversion parameters were optimized, including error tolerance, weighting, focussing constraints and detrending of data.

Results and Deliverables

Advanced Magnetic Processing and Imagery Products

High-quality images of the bedrock magnetic signatures have been produced the Timmins survey block. A summary of the various magnetic imagery products is shown in Table 3 and described below.

Interpreter's Views

In addition to the common magnetic imagery provided, two hybrid magnetic images have been processed to aid in litho-structural interpretation. These "interpreter's views" are named iView1, iView2, iView3 and are shown in Figures 4, 5 and 6 for Timmins North and Figures 7,8, and 9 for Timmins South respectively.

The first, iView1, employs elements from the first and second order differentials as well as a non-linear colour palette of the total magnetic field to provide clear definition of structural breaks/flexures/deformations, while maintaining good delineation of lithological boundaries.

The second, iView2, makes use of the tilt angle and a linear colour palette of the total magnetic field. This product is good for identifying the locations of strongest anomalism as well as tracing stratigraphy over longer distances. One caveat of this image is that it tends to connect and produce the appearance of continuity in strata which may in fact have breaks and offsets. For this reason, structural interpretation at the target scale should be done using iView1 rather than iView2.

The third, iView3, optimizes elements from the first and second order differentials as well as a normal distribution colour stretch of the total magnetic field to highlight more subtle details of structural breaks/flexures/deformations, and often serves to reveal more subtle structural corridors.

Table 3: Table of delivered magnetic imagery products.

Magnetic Imagery	Vector Products	Enhanced Mag Imagery	Mag Image Maps	Interpreter's View Maps
✓	✓		✓	✓

Magnetic Imagery Products

- Data grids in Geosoft .GRD format. Additional details on the file nomenclature are available in Appendix A.
  - RMI – Magnetic data as measured after removal of the International Geomagnetic Reference Field (IGRF), diurnal variations and levelling. Residualizing the data moves the mean of the data set closer to zero, making the amplitudes of the anomalies more intuitive to quantify. The imagery is identical to a TMI grid (total magnetic intensity), but the values on the colour bar are shifted.
  - RMI_1vd – First derivative of the RMI, which is effective at bringing out the edges of magnetic features in the RMI data.
  - RMI_2vd – Second derivative of the RMI, which further enhances the edges of magnetic features in the RMI.
  - RTP – Magnetic data processed to account for the inclination of the Earth's magnetic field to centre the anomalies over their source.

    - RTP_1vd – First derivative of the RTP, which is effective at bringing out edges of the magnetic features in the RTP data.
    - RTP_2vd – Second derivative of the RTP, which further enhances the edges of magnetic features in the RTP.
    - AnSig – Another approach to centre the anomaly over the source using absolute value of the RMI derivative.
    - RMI_TILT – A generalized derivative that treats weak magnetic bodies with the same weight as strong magnetic bodies.
    - RMI_TILTHD – A by-product of calculating the TILT. Which shows the slope of the response in the horizontal directions.
- Georeferenced imagery of the data grids with a variety of colour stretches in geotiff format (.TIF). Certain colour stretches include:
    - No shade – The images do not contain any shading effects.
    - Black and white – The images are in black in white instead of color. These images provide a good back drop with other colour images superimposed.
    - Non-linear – Images uses a non-linear distribution of colour to maximize the range of features visible.
    - Linear – Images use a linear distribution of colour to represent the actual range of data values in the image. This is particularly useful in identifying the strongest features in the image.
    - Normal – Images uses a normal distribution of colour to represent the data centered about the input mean value with the range covering x standard deviations on both sides of the input mean. This is particularly useful when analysing particular points of interest within the map.
    - X% clips: 0.5%, 2% or 5% clips are used to eliminate outliers in the data set to allow for a better distribution of colour.
- Colour stretch definitions in .ZON format.

Vector Products

- Survey line path delivered in .DXF format.
- Contours of the RMI, RMI_1vd and RTP delivered in .DXF format.

Map Products

- The following images have been delivered as maps in PDF format:
    - Interpreter's View hybrid magnetic imagery (iView, iView #2, iView #3), which are designed to enhance structural details in the magnetic data. The first image (iView) is a hybrid image of the RMI and the first and second derivatives of the RMI (RMI_1vd and RMI_2vd) shown in Figure 4 and 7 for Timmins North and South respectively. The second image (iView #2) is a hybrid image of the RMI and the RMI tilt derivative (RMI_TILT) shown in Figure 5 and 8 for Timmins North and South respectively. The third image (iView #3) is a hybrid image of the RMI and the first and second derivatives of the RMI (RMI_1vd and RMI_2vd), but displays alternative colour stretches compared that to the iView #1 shown in in Figures 6 and 9 for Timmins North and South respectively.
    - RMI in linear and non-linear colour stretch.
    - RMI_1vd in non-linear colour stretch.
    - RMI_2vd in black and white, non-linear colour stretch.
    - AnSig in linear colour stretch.
    - RMI_TILT in black and white, non-linear colour stretch.

3D Magnetic Inversion Products

Broadly robust inversion results have been achieved and the following suite of deliverables have been produced:

- 3D Magnetic Susceptibility Inversion - 3D susceptibility model in..geosoft_voxel, UBC and .XYZ (ASCII) format. The statistics of the magnetic inversions are presented in Table 4.
- Isosurfaces - 3D surfaces generated from 3D inversion models of constant magnetic susceptibility and amplitude in .DXF format.
- Horizontal Sections - Horizontal sections of constant elevation through the 3D ground magnetic susceptibility inversion model in Geosoft .GRD and .TIFF format of the 3D inversion at: 275, 250, 200, 150, 100, 0, -200, -400, -600 meters elevation ASL for both Timmins North and South.
- Geoscience Analyst project and free viewer installer – Susceptibility model figures have been generated from a 3D Geoscience Analyst project, which is delivered along with this memorandum. An overview image taken from Geoscience Analyst for Timmins North and South is provided in Figure. 2D figures can fall short when trying to illustrate 3D bodies, especially with varying orientations. For this reason, it is important that 3D geophysical models be viewed in 3D, either by importing the DXF to your preferred 3D software, or by looking at the Geoscience Analyst project provided, along with the free version of this software.
- Geosoft 3D project with voxels and isosurfaces preloaded in .geosoft_3dv format.
- 3D project to be imported in LeapFrog with voxels and isosurfaces preloaded in .OMF format.

Table 4: Statistics of magnetic inversions

Voxel ID	Minimum Value	Maximum Value	Mean	Range	Standard Deviation
Timmins North	-0.063	0.451	0.002	0.514	0.014
Timmins South	-0.104	0.714	0.002	0.818	0.016

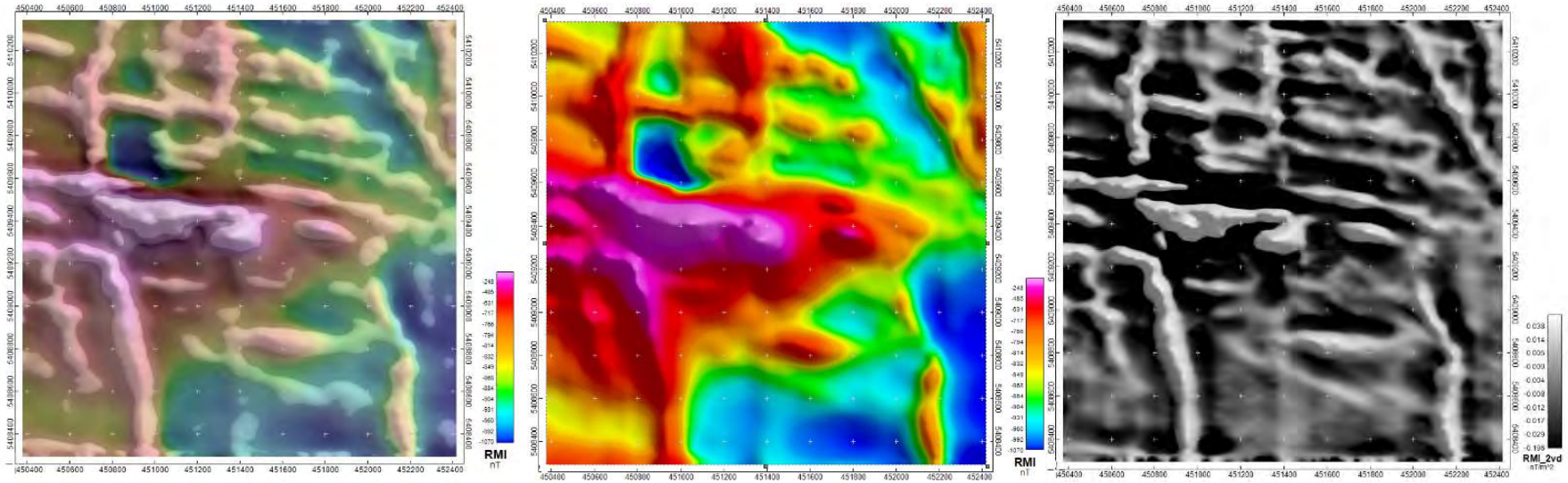


Figure 4:

LEFT: *iView (interpreter's view) of the Timmins North. The iView is a hybrid image of the RMI, RMI_1vd and RMI_2vd.*

MIDDLE: *Residual magnetic intensity for Timmins North using a non-linear colour stretch.*

RIGHT: *Second vertical derivative of the residual magnetic intensity for Timmins North using a log-linear, black and white colour stretch.*

Note: *that the RMI defines lithological boundaries well and the black and white 2vd defines structures well. The iView1 as a hybrid aims to present these details from both images in a single view, making it an excellent backdrop for litho-structural interpretation.*

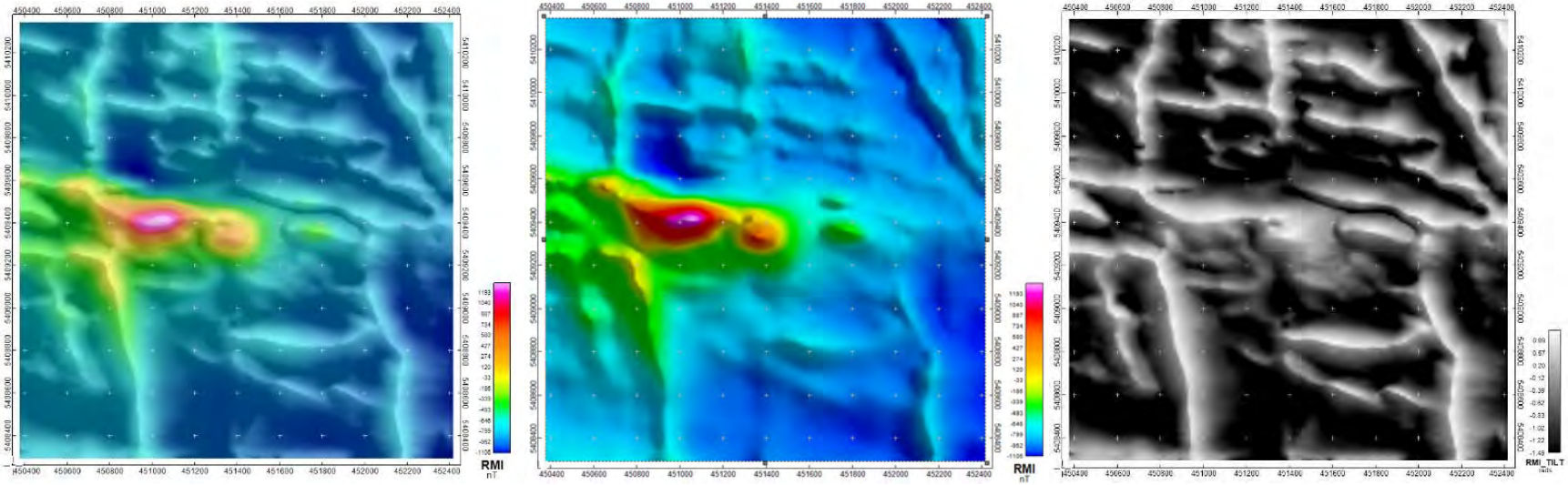


Figure 5:

LEFT: *iView2 (interpreter's view #2) of the Timmins North UAVMAG. The iView #2 is a hybrid image of the RMI and RMI_TILT.*

MIDDLE: *Residual magnetic intensity for Timmins North using a linear 2% clip colour stretch.*

RIGHT: *Tilt derivative of the residual magnetic intensity for Timmins North using a non-linear, black and white colour stretch.*

Note: *The iView2 is an excellent tool for tracing lineaments, even where they become more subtle in the RMI. However, when searching for offsets/breaks and other structural deformations, the iView2 may sometimes show continuity where there should be a break. The iView1 and 2vd images should be referred to regularly when interpreting deformation.*

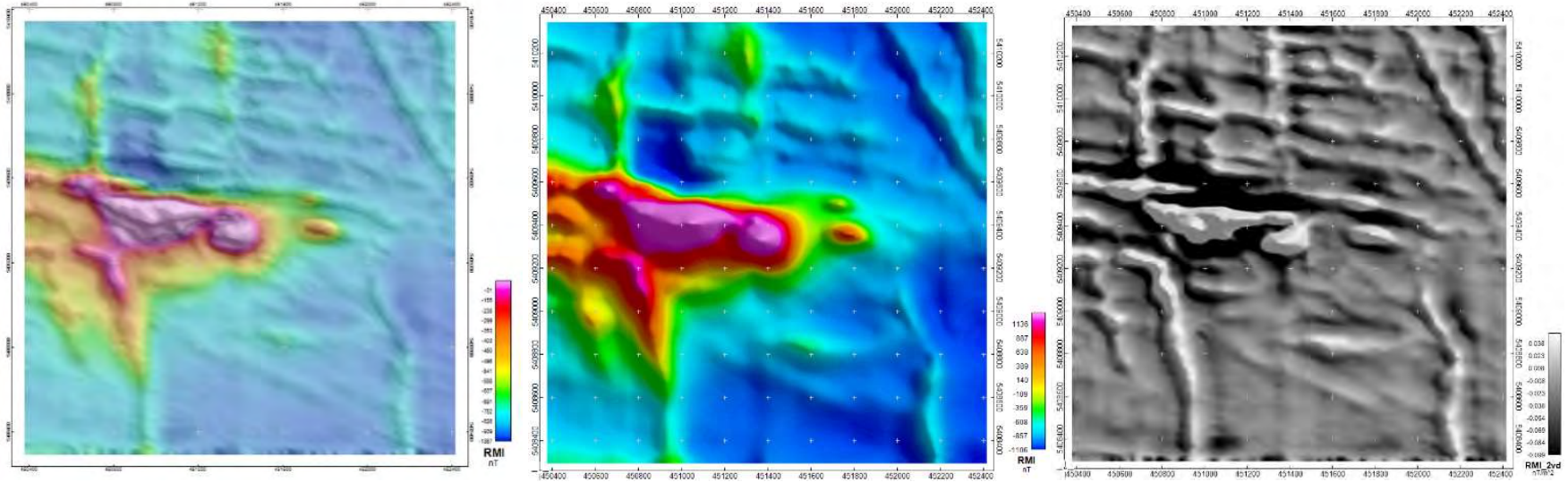


Figure 6:

LEFT: *iView3 (interpreter's view #3) of the Timmins North UAVMAG. The iView #3 is a hybrid image of the RMI, RMI_1vd and RMI_2vd.*

MIDDLE: *Residual magnetic intensity for Timmins North using a nonlinear, normal distribution colour stretch.*

RIGHT: *Second vertical derivative of the residual magnetic intensity for Timmins North using a linear, black and white colour stretch*

Note: *That the RMI defines lithological boundaries well and the black and white 2vd defines structures well. The iView3 as a hybrid aims to present these details from both images in a single view, making it an excellent backdrop for litho-structural interpretation, similar to the iView1, but does a better job at highlighting more subtle geological structures.*

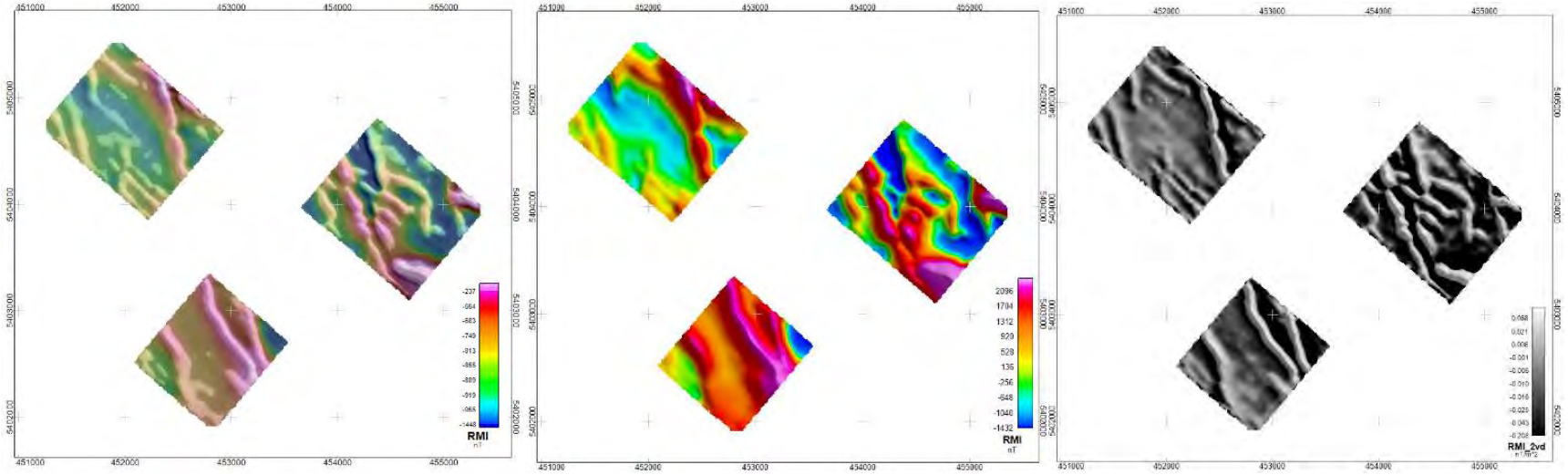


Figure 7:

LEFT: *iView (interpreter's view) of the Timmins South. The iView is a hybrid image of the RMI, RMI_1vd and RMI_2vd.*

MIDDLE: *Residual magnetic intensity for Timmins South using a non-linear colour stretch.*

RIGHT: *Second vertical derivative of the residual magnetic intensity for Timmins South using a log-linear, black and white colour stretch.*

Note: *that the RMI defines lithological boundaries well and the black and white 2vd defines structures well. The iView1 as a hybrid aims to present these details from both images in a single view, making it an excellent backdrop for litho-structural interpretation.*

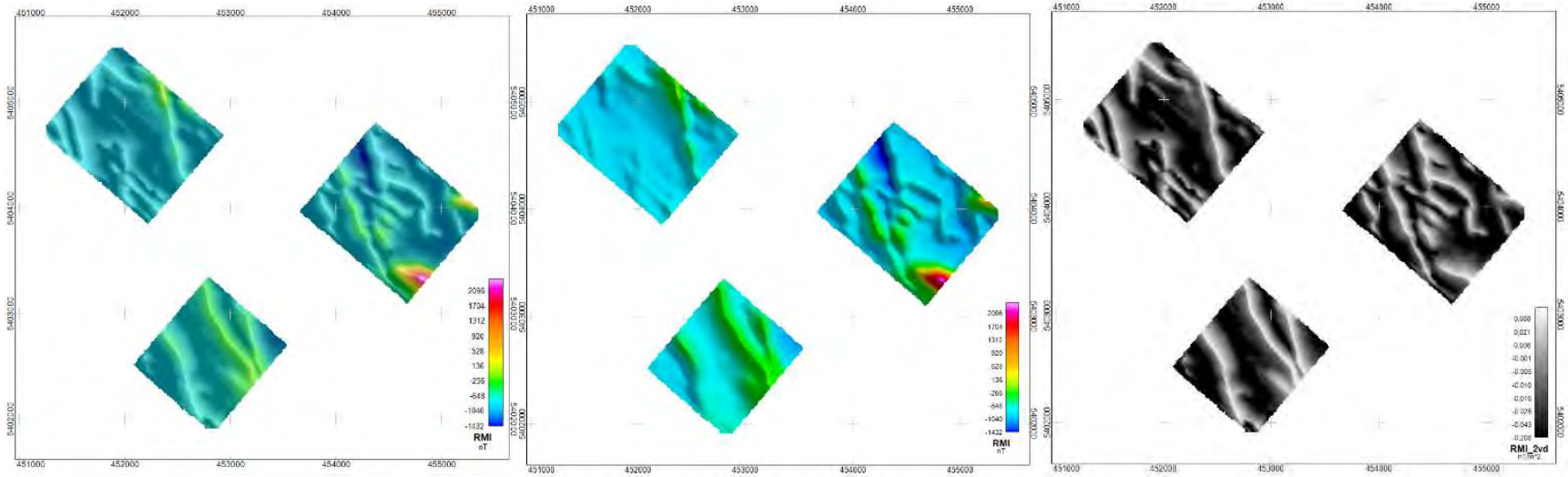


Figure 8:

LEFT: *iView2 (interpreter's view #2) of the Timmins South UAVMAG. The iView #2 is a hybrid image of the RMI and RMI_TILT.*

MIDDLE: *Residual magnetic intensity for Timmins South using a linear 2% clip colour stretch.*

RIGHT: *Tilt derivative of the residual magnetic intensity for Timmins South using a non-linear, black and white colour stretch.*

Note: *The iView2 is an excellent tool for tracing lineaments, even where they become more subtle in the RMI. However, when searching for offsets/breaks and other structural deformations, the iView2 may sometimes show continuity where there should be a break. The iView1 and 2vd images should be referred to regularly when interpreting deformation.*

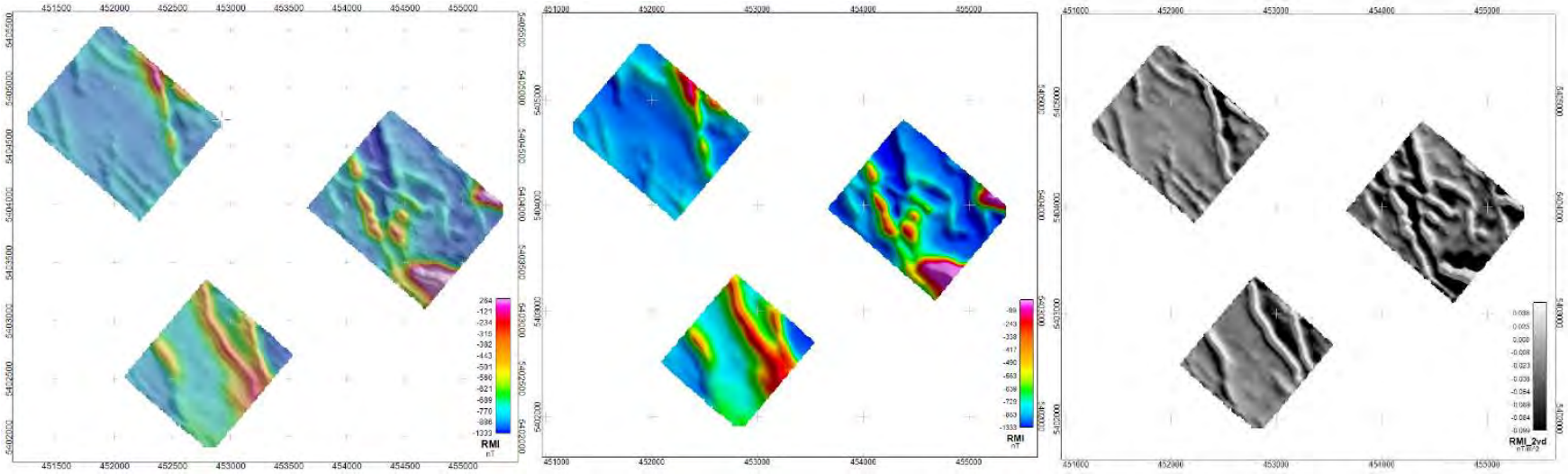


Figure 9:

LEFT: *iView3 (interpreter's view #3) of the Timmins South UAVMAG. The iView #3 is a hybrid image of the RMI, RMI_1vd and RMI_2vd.*

MIDDLE: *Residual magnetic intensity for Timmins South using a nonlinear, normal distribution colour stretch.*

RIGHT: *Second vertical derivative of the residual magnetic intensity for Timmins South using a linear, black and white colour stretch*

Note: *That the RMI defines lithological boundaries well and the black and white 2vd defines structures well. The iView3 as a hybrid aims to present these details from both images in a single view, making it an excellent backdrop for litho-structural interpretation, similar to the iView1, but does a better job at highlighting more subtle geological structures.*

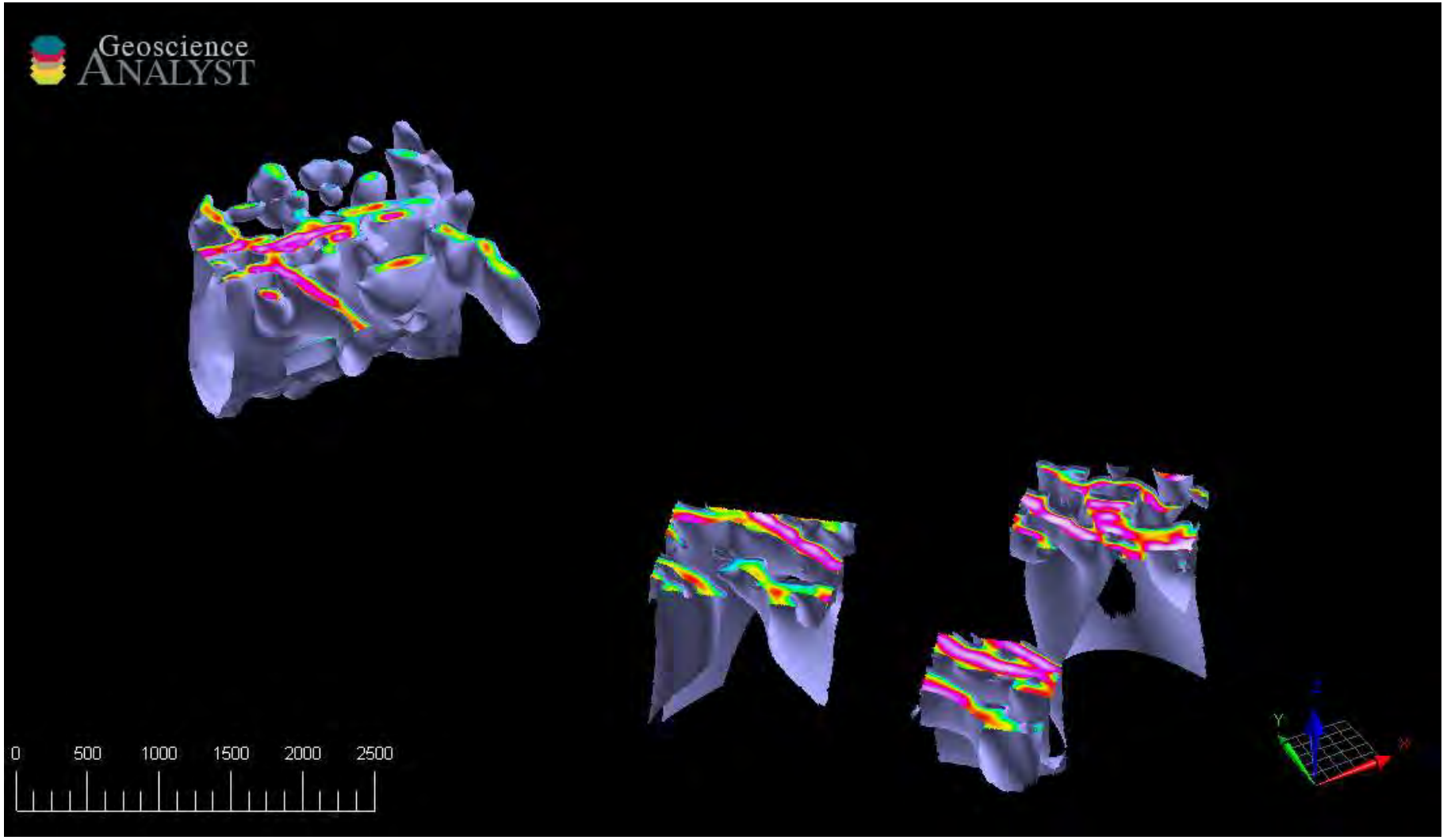


Figure 10: Inclined view from above the inversion results for Timmins North and South. Displayed in the image are: 1. An isoshell in transparent purple, which outlines magnetic sources with a magnetic susceptibility of 0.000767 SI and 0.000122 SI for Timmins North and South respectively. Isosurfaces outlining areas of numerous different strengths have also been delivered. 2. A multi-colour voxel horizontal slice through the isoshell.

The results described in this memorandum have been produced using data acquired during the Timmins UAV magnetic survey. Processing methodology has been defined specifically to meet the objectives of this project. Any results presented in this report have been prepared from the geophysical data referred to in this document.

We thank you for allowing us to be a part of your exploration program and aim to provide services that will accelerate your path to discovery.

Respectfully Submitted,

Daniel Card, P.Geo, RPGeo

President and principal consultant

EarthEx Geophysical Solutions Inc.

APPENDIX A - File Nomenclature and Abbreviations

RMI – Residual Magnetic Intensity: This is the magnetic data as measured by the system after removal of the International Geomagnetic Reference Field (IGRF), diurnal variations and levelling.

AnSig – Analytic Signal: An approach to centering the anomaly over its source, the AnSig is a derivative product that takes the absolute values of the amplitudes of the magnetic response derivatives, eliminating the negative tail of the magnetic bipolar response.

RMI 1vd – First vertical derivative of the RMI: This is a filter applied to the data that picks up on areas of steep gradients in the data. It is very effective at picking out and enhancing edges. It should be noted that this process may also enhance noise in the data set.

RMI 2vd – Second vertical derivative: This product does a higher order derivative and further focusses in on edge features. It should be noted that the additional highlighting of fine features like edges further highlights the noise present in the data.

RMI TILT – The tilt derivative: The TILT angle is a generalized derivative product which is as sensitive to horizontal and vertical derivatives and serves to treat weakly magnetic bodies with the same weight as strongly magnetic ones.

RMI TILTHD – The horizontal derivatives of the TILT: A by-product of calculating the TILT. Which shows the slope of the response in the horizontal directions.

RTP – Reduced to Pole: RMI data have been processed to account for the inclination of the earth's magnetic field. The result is that the anomalies are now centred over their source. Depending on the quality of the input data, some artefacts may appear as a result of the RTP calculation.

RTP 1vd – First vertical derivative of the RTP: This is a filter applied to the data that picks up on areas of steep gradients in the data. It is very effective at picking out and enhancing edges. It should be noted that this process may also enhance noise in the data set.

Colour Stretch

NS – The image has been produced with no shading effects.

NL – Non-Linear: The image uses a non-linear distribution of colour, also known as histogram equalization or HEQ. Images produced like this assign an equal number of pixels to each colour in the colour stretch, maximizing the use of the colour palette to allow visualization of greatest range of features.

Norm – Normal: Images uses a normal distribution of colour to represent the data centered about the input mean value of the dataset with the range covering x standard deviations on both sides of the input mean. This is particularly useful when analysing points of interest within the map.

Lin – Linear: The image uses a linear distribution of colour. In these images the range in colour is a more accurate representation of the range in data values within the image. They allow accurate assessment of the strongest features in the grid.

0_5pct, 2pct, 5pct etc – Histogram clip percentage: Most data sets contain outliers, which can result in poor distribution of the colours in a colour stretch, especially a linear one. These histogram clipped images set the colour range to go from blue at 0.5% of the histogram to pink at 99.5% of the histogram (0_5pct), 2% to 98% (2pct) or 5% to 95% (5pct) to prevent outliers from skewing the colour stretch and to make the range of features in the bulk of the data more clearly defined and easier to differentiate.

Appendix 3. Mobile Metal Ion Soil Survey

450,000 mE
450,500 mE
451,000 mE
451,500 mE
5,410,000 mN
5,409,500 mN
5,409,000 mN
5,408,500 mN
5,408,000 mN

655168
655169
655196
655200
655213
655171
627498
627492
627475
627483
627497
627466
627464
627496
627472
627461
627463
627470
627471
627473
627467

Magnetic Declination of 9°59'W
MAGNETIC
TRUE
N

XS1001 100
XS1003 110
XS1004
XS1005 70
XS1006 130
60
XS1007
XS1008 60
XS1009 430
XS1010 540
XS1011 380
XS1012 630
XS1013 280
XS1014 110
XS1015 260
290
XS1016
XS1017 4,090
XS1018 500
XS1019 2,030
XS1021 790
XS1022 30
XS1023 110
XS1024 50
50
XS1025
1,330
XS1026
150
XS1027
2,850
XS1028
250
XS1029
260
XS1030
200
XS1032
50
XS1034
XS1035 70
XS1036 70
XS1037 40
XS1038 40
XS1039 40
XS1041 50
XS1042 60
XS1043 50
XS1044 40
XS1045 80
290
XS1046
120

Map Index
Map 1
Map 2

Legend
Sample Number
ppm Cu
Property Boundary
Claim Cell
Forestry Haul Road
Winter Loggging Access

Xander Resources

Timmins Nickel Property
Mobile Metal Ion Soil Survey Results
Copper (ppm)

Date: 2022-12-04
Author: pgeo_tims
Office:
Drawing:
Scale: 1:5000
Projection: UTM Zone 17 (NAD 83)
Map 1

0 50 100 200
metres

Magnetic Declination of 9°59'W

MAGNETIC TRUE

N

452,000 mE

453,000 mE

5,403,000 mN

5,402,000 mN

627596

627584

627587

627588

627593

627595

627583

627591

627585

627579

627582

627578

627592

688522

XS1048 440
XS1049 660
XS1050 530
XS1051 610
XS1052 1,840
XS1053 1,940
XS1054 510
XS1055 420
XS1056 370
XS1057 420
XS1058 3,710
XS1059 920
XS1069 6,460

XS1071 5,440
XS1070 2,260
XS1061 1,660
XS1062 380
XS1063 490
XS1064 640
XS1065 370
XS1066 510

Legend

Sample Number ✚ *ppm Cu*

Property Boundary

Claim Cell

Forestry Haul Road

Winter Logging Road

Map Index

Map 1

Map 2

Abitibi Haul Road

Xander Resources

Timmins Nickel Property

Mobile Metal Ion Soil Survey Results

Copper (ppm)

Date: 2022-12-04

Author: pgeo_tims

Office:

Drawing:

Scale: 1:5000

Projection: UTM Zone 17 (NAD 83)

Map 2

0 75 150 300

metres

Sample	WPT	UTME	UTMN	Colour	Moisture	Soil	Vegetation	Depth	Attributes	WTKG	Ag_ppb	Al_ppm	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cs_ppb
METHOD										G_WGH_KG	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
UNITS										kg	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
XS1001	44	450444	5409473	Grey-Brown	Moist	sand	Sp, Br	30	Edge of swamp	0.61	3.5	56	<10	<0.1	550	<0.5	383	15	21	13	33	1
XS1002		Duplicate		Grey-Brown	Moist	sand	Sp, Br	31	Edge of swamp	0.64	<0.5	3	<10	<0.1	90	<0.5	197	16	<2	14	16	0.9
XS1003	45	450436	5409454	Brown	Moist	sand	Sp, Br,Ce	30	Edge of swamp	0.62	3	40	<10	<0.1	730	<0.5	399	20	3	21	31	1.3
XS1004	46	450434	5409425	Tan-Brown	Dry	sand	Sp, Br	35	Edge of swamp	0.51	<0.5	97	30	<0.1	1220	2.8	99	11	32	13	133	2.4
XS1005	47	450424	5409401	Tan-Brown	Dry	sand	Sp, Br,Po	40	Near road	0.44	0.5	171	30	<0.1	2040	2.3	126	15	58	16	200	4.4
XS1006	48	450408	5409380	Tan-Brown	Dry	sand	Sp, Br,Po	40		0.61	1.2	19	<10	<0.1	300	<0.5	375	10	4	8	19	0.8
XS1007	49	450372	5409327	Brown	Moist	sand	Sp, Br	45	Extra Deep A	0.48	2.6	11	<10	<0.1	420	<0.5	330	8	<2	35	20	<0.2
XS1008	50	450365	5409303	Light Brown	Moist	clay	Sp, Br	40		0.51	1.5	22	<10	<0.1	1040	<0.5	436	7	2	126	49	0.3
XS1009	51	450354	5409280	Light Brown	Moist	clay	Sp, Br	25		0.65	2.8	26	<10	0.3	790	<0.5	447	8	4	121	69	<0.2
XS1010	52	450330	5409260	Light Brown	Dry	clay	Sp, Br	30		0.51	13.2	22	<10	0.2	1030	<0.5	352	5	19	86	18	0.3
XS1011	53	450317	5409233	Light Brown	Dry	clay	Ce,Br	30	Pebbly clay	0.62	5.3	32	<10	<0.1	600	<0.5	439	12	6	115	38	0.2
XS1012	54	450308	5409206	Light Brown	Moist	clay	Ce	35	boulders	0.54	3.4	39	<10	0.1	920	<0.5	477	7	5	77	70	0.2
XS1013	55	450294	5409181	Light Brown	Dry	silt	Ce	35	35	0.57	3.2	38	10	<0.1	510	<0.5	316	14	31	52	58	1.4
XS1014	56	450283	5409157	Red Brown	Dry	sand	Sp, Br	25	boulders	0.34	<0.5	262	<10	<0.1	460	<0.5	6	6	39	83	96	4.2
XS1015	57	450272	5409132	Light Brown	Moist	sand	sp	45	boulders	0.62	1	98	<10	0.1	390	<0.5	377	7	372	31	76	2.6
XS1016	58	450267	5409102	Grey-Green	wet	clay	Ce	55		0.6	2.7	18	<10	0.4	1380	<0.5	349	7	14	72	73	<0.2
XS1017	59	450248	5409082	Brown	wet	silt	Ce,Sp	65		0.66	1.3	38	<10	<0.1	140	<0.5	336	7	11	52	30	1.1
XS1018	60	450232	5409062	Green	wet	silt	Ce,Br,Po	65		0.71	4.4	24	<10	0.5	590	<0.5	403	9	113	52	36	0.2
XS1019	61	450216	5409040	Light Brown	wet	silt	Sp,Ce,Po	95		0.55	0.6	11	<10	<0.1	80	<0.5	278	4	6	12	28	0.6
XS1020		Blank								0.42	0.9	21	<10	0.1	410	<0.5	308	8	49	74	21	0.2
XS1021	62	450198	5409020	Red Brown	wet	sand	Ce,Sp,	40		0.59	<0.5	<1	<10	<0.1	160	<0.5	284	5	<2	23	3	0.3
XS1022	63	450189	5408997	Red Brown	wet	sand	Ce,Sp,	60		0.55	1.5	38	50	<0.1	1720	0.6	300	3	367	61	120	0.8
XS1023	64	450180	5408975	Light Brown	wet	silt	Ce	65		0.64	<0.5	11	<10	<0.1	120	<0.5	233	7	3	28	20	0.5
XS1024	65	450165	5408949	Light Brown	wet	sand	Ce	45		0.66	<0.5	6	<10	<0.1	80	<0.5	179	5	2	56	24	0.8
XS1025	66	450136	5408907	Light Brown	wet	silt	Ce,Sp	65		0.45	4.1	17	<10	0.2	600	<0.5	317	17	8	69	27	0.7
XS1026	67	450119	5408860	Light Brown	Moist	sand	Ce,Sp	40		0.68	4.7	25	<10	<0.1	310	<0.5	375	3	37	128	54	2.4
XS1027	68	450096	5408812	Green	wet	clay	Br,Ce,Sp	80	grains of mica	0.73	5.1	25	<10	0.2	540	<0.5	339	9	54	36	37	1
XS1028	69	450078	5408764	Red Brown	Dry	sand	Br,Sp	25		0.36	<0.5	198	<10	<0.1	460	<0.5	30	6	11	89	76	4.5
XS1029	70	450056	5408704	Rusty Brown	Dry	sand	Br,Sp	25		0.4	1	398	30	<0.1	1200	0.7	23	9	153	45	229	6.9
XS1030	71	450043	5408653	Rusty Brown	Dry	sand	Br,Sp	35		0.51	4.8	442	50	<0.1	3460	1.8	52	16	120	169	549	4.1
XS1031		Duplicate		Rusty Brown	Dry	sand	Br,Sp	36		0.61	6.4	486	50	<0.1	3720	1.7	56	15	126	152	560	4.7
XS1032	74	450923	5408407	Red Brown	Dry	sand	Sp,Ce	45		0.37	0.6	516	20	0.6	1430	<0.5	260	5	391	35	352	3
XS1033		Duplicate		Red Brown	Dry	sand	Sp,Ce	46		0.48	<0.5	391	20	<0.1	1080	0.5	193	8	182	24	210	2.1
XS1034	75	450889	5408360	Red Brown	wet	sand	Sp	40	near road	0.54	<0.5	137	10	<0.1	560	<0.5	199	17	216	191	44	1.8
XS1035	76	450877	5408338	Grey	Moist	sand	Sp,Ce	38	qtz rich sand	0.61	<0.5	169	30	<0.1	1580	1.6	191	9	73	21	471	2.9
XS1036	77	450868	5408312	Red Brown	Moist	sand	Sp	35		0.48	<0.5	372	10	<0.1	630	0.7	23	5	36	15	94	3

Sample	WPT	UTME	UTMN	Colour	Moisture	Soil	Vegetation	Depth	Attributes	WTKG	Ag_ppb	Al_ppm	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cs_ppb
XS1037	78	450861	5408288	Grey-Brown	Dry	sand	Sp	30		0.54	<0.5	468	10	<0.1	1810	0.8	151	4	484	10	230	5.5
XS1038	79	450851	5408265	Rusty Brown	Moist	sand	sp	25		0.46	<0.5	567	10	<0.1	970	0.9	25	2	67	18	265	1.3
XS1039	80	450846	5408240	Red Brown	Moist	sand	sp	25		0.55	<0.5	436	10	<0.1	3110	1.4	37	7	561	17	567	4.1
XS1040		Blank								0.55	1.2	13	10	0.1	500	<0.5	259	3	28	42	13	<0.2
XS1041	81	450837	5408215	Red Brown	Moist	sand	Sp,Ta	20		0.44	<0.5	637	30	<0.1	1660	1.7	47	3	429	18	534	6.7
XS1042	82	450825	5408190	Red Brown	Moist	sand	Sp,Ta	20		0.48	<0.5	510	20	0.2	580	1.9	25	8	79	18	383	2.3
XS1043	83	450815	5408168	Red Brown	Moist	sand	Sp,Ta	25		0.53	<0.5	491	30	<0.1	1800	1.4	24	2	413	23	469	7.8
XS1044	84	450805	5408145	Brown	wet	silt	Ta,Sp	30		0.68	<0.5	180	40	<0.1	1580	0.9	115	2	371	43	154	3
XS1045	85	450795	5408122	Brown	wet	silt	Ce,Ta,Sp	45		0.51	1.9	56	10	0.2	520	<0.5	230	7	169	51	89	1.1
XS1046	86	450772	5408060	Grey-Brown	wet	silt	Ce,Br,Sp	60		0.54	0.6	60	10	<0.1	910	<0.5	232	19	50	32	16	0.6
XS1047		Duplicate		Grey-Brown	wet	silt	Ce,Br,Sp	61		0.52	1.5	62	20	<0.1	940	<0.5	240	15	127	52	35	0.9
XS1048	92	453273	5403024	Brown	Moist	clay	Sp,Br	35	edge of road	0.54	4.3	14	<10	0.2	1160	<0.5	405	3	<2	242	7	0.3
XS1049		Duplicate		Brown	Moist	clay	Sp,Br	36	edge of road	0.57	1	21	<10	0.2	720	<0.5	340	9	<2	329	3	0.3
XS1050	93	453236	5402992	Brown	Moist	clay	Sp,Br	35	edge of road	0.43	16.6	16	<10	0.2	1780	<0.5	629	6	24	127	21	<0.2
XS1051	94	453197	5402959	Brown	Moist	clay	Sp,Br	35		0.48	18.7	15	<10	0.2	1550	<0.5	576	7	70	142	22	<0.2
XS1052	95	453159	5402928	Brown	Moist	clay	Sp,Br	25		0.61	17.4	18	<10	0.3	1730	<0.5	615	4	29	91	23	<0.2
XS1053	96	453120	5402896	Brown	wet	clay		30	road bed?	0.66	1.1	65	<10	<0.1	250	<0.5	274	15	42	77	10	0.9
XS1054	97	453079	5402864	Green	Moist	clay	Ta,Ce	50		0.51	14.3	16	<10	<0.1	1920	<0.5	603	15	43	229	25	<0.2
XS1055	98	453040	5402826	Green	Moist	clay	Ta,Sp,Br	65		0.7	8.9	13	<10	<0.1	1260	<0.5	419	7	25	306	7	<0.2
XS1056	99	453024	5402808	Green	Moist	clay	Ta,Sp,Br	55		0.62	10	14	<10	<0.1	1360	<0.5	507	7	33	145	9	<0.2
XS1057	100	453002	5402796	Grey-Brown	Moist	clay	Ta,Sp	70		0.61	8.8	14	<10	<0.1	1230	<0.5	434	6	52	281	8	<0.2
XS1058	101	452948	5402763	Green	Moist	clay	Ta,Sp	70		0.49	12.4	14	<10	0.1	2210	<0.5	360	16	23	84	15	0.2
XS1059	102	452907	5402733	Green	Moist	clay	Ta,Sp	85		0.6	17.9	21	<10	0.2	3130	<0.5	401	15	58	48	47	1.5
XS1060		Blank								0.51	5.4	10	<10	<0.1	410	<0.5	234	5	66	77	11	0.2
XS1061	103	452621	5402576	Tan	Moist	silt	Sp,Ta	65		0.55	15.2	41	<10	<0.1	900	<0.5	453	20	135	73	40	0.8
XS1062	104	452599	5402571	Tan	Moist	silt	Sp,Br	50		0.83	4.9	13	<10	0.2	970	<0.5	410	3	25	96	8	<0.2
XS1063	105	452574	5402556	Tan	Moist	silt	Sp,Br,TA	45		0.55	5	12	<10	0.3	1290	<0.5	349	4	19	91	11	<0.2
XS1064	106	452549	5402547	Tan	Moist	silt	Sp,Br,TA	35		0.58	9.3	13	<10	0.3	1080	<0.5	403	5	28	75	11	<0.2
XS1065	107	452528	5402532	Grey	Moist	sand	Sp,Br,TA	35		0.67	6.2	135	<10	<0.1	720	<0.5	292	13	370	55	66	1.4
XS1066	108	452506	5402520	Tan	Moist	clay	Ta,Sp	40		0.74	14.3	38	<10	0.1	1460	<0.5	522	6	199	13	110	0.4
XS1067		Duplicate		Tan	Moist	clay	Ta,Sp	40		0.52	5.6	19	<10	0.3	1230	<0.5	423	4	18	97	23	0.3
XS1068	109	452982	5402782	Tan-Green	Moist	clay	Ta,Sp	45		0.44	9.9	17	<10	<0.1	1280	<0.5	363	7	28	131	12	<0.2
XS1069	110	452925	5402751	Tan-Green	Moist	clay	Ta,Sp	55		0.57	8.7	12	<10	<0.1	1680	<0.5	383	5	24	242	9	0.2
XS1070	111	452646	5402583	Tan-Green	Moist	clay	Sp,Ta	55		0.7	8.5	12	<10	<0.1	1550	<0.5	391	11	25	92	11	<0.2
XS1071	112	452668	5402598	Tan-Green	Moist	clay	Sp,Ta	75		0.38	13.1	23	<10	0.2	2370	<0.5	362	10	53	68	56	0.5
*REP-XS1020											1.5	20	<10	0.2	370	<0.5	315	5	42	59	20	<0.2
BLANK											<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2

Sample	WPT	UTME	UTMN	Colour	Moisture	Soil	Vegetation	Depth	Attributes	WTKG	Ag_ppb	Al_ppm	As_ppb	Au_ppb	Ba_ppb	Bi_ppb	Ca_ppm	Cd_ppb	Ce_ppb	Co_ppb	Cr_ppb	Cs_ppb
*REP-XS1047											1.4	61	20	<0.1	860	<0.5	252	12	183	42	38	0.9
MMISRM22											353	38	20	10.6	50	<0.5	111	13	42	77	53	7.8
BLANK											<0.5	<1	<10	<0.1	<10	<0.5	4	<1	<2	<1	<1	<0.2

Sample	Cu_ppb	Dy_ppb	Er_ppb	Eu_ppb	Fe_ppm	Ga_ppb	Gd_ppb	Hg_ppb	In_ppb	K_ppm	La_ppb	Li_ppb	Mg_ppm	Mn_ppb	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	P_ppm	Pb_ppb	Pd_ppb	Pr_ppb	Pt_ppb
METHOD	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
UNITS	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb
XS1001	100	0.9	0.4	0.6	12	3.4	2.1	<1	<0.1	6.4	7	4	36.1	4400	2	1.6	9	101	1.4	48	<1	2.2	<0.1
XS1002	110	<0.5	<0.2	<0.2	5	0.6	<0.5	<1	<0.1	7.7	<1	2	34.5	4600	<2	<0.5	<1	92	0.4	41	<1	<0.5	<0.1
XS1003	110	<0.5	<0.2	0.2	7	1.4	0.7	<1	<0.1	10.2	1	9	50.2	6000	4	0.7	2	121	1.1	40	<1	<0.5	<0.1
XS1004	70	1.7	1.1	1	49	35.4	2.6	<1	0.2	16.2	15	14	8.5	1500	8	25.1	14	49	4.3	370	<1	3.8	<0.1
XS1005	130	2.9	1.6	1.7	68	48.2	4.2	<1	0.2	17.2	27	21	10.8	1100	7	27.2	24	60	5.4	252	<1	6.5	<0.1
XS1006	60	<0.5	<0.2	0.2	5	1.6	0.9	<1	<0.1	6.5	2	3	36.2	3000	4	1.1	3	56	1.1	98	<1	0.6	<0.1
XS1007	60	0.8	0.9	<0.2	16	<0.5	1	<1	<0.1	11.8	<1	12	77.8	16000	7	<0.5	1	197	0.3	7	<1	<0.5	<0.1
XS1008	430	6	4.7	1.2	8	<0.5	6.2	<1	<0.1	13.1	2	7	88.7	3500	2	<0.5	8	171	0.2	21	<1	1.4	<0.1
XS1009	540	11.1	11.8	1.5	5	<0.5	10	<1	<0.1	23.4	4	3	139	2500	<2	<0.5	15	177	0.1	23	<1	2.5	<0.1
XS1010	380	6.9	4.4	2	9	<0.5	11.6	1	<0.1	12.5	8	19	94.7	4500	<2	<0.5	18	178	<0.1	67	<1	2.8	<0.1
XS1011	630	5.5	4.9	0.8	6	<0.5	5	<1	<0.1	11.8	3	11	101	3700	<2	<0.5	9	254	0.1	67	<1	1.6	<0.1
XS1012	280	7.2	6	1.4	8	<0.5	7.4	<1	<0.1	13.7	4	4	116	2600	2	<0.5	13	253	0.1	28	<1	2.3	<0.1
XS1013	110	1.4	0.7	0.6	43	3.3	2.8	<1	<0.1	5.1	13	8	28.5	9300	5	2.1	17	74	1.4	45	<1	4.1	<0.1
XS1014	260	3.5	2.9	1.1	154	33.9	3.4	<1	0.2	8.7	20	4	1.5	<100	3	6.5	18	192	1.5	19	<1	4.7	<0.1
XS1015	290	14.5	7.1	6.5	18	3.2	25.8	<1	<0.1	4.5	140	1	38.1	2500	2	1.4	162	82	0.4	46	<1	40	<0.1
XS1016	4090	5.8	5.4	1.1	28	<0.5	6.3	<1	<0.1	20.6	4	8	65.6	6700	<2	<0.5	13	157	0.2	113	<1	2.3	<0.1
XS1017	500	1.7	1.3	0.5	17	1.9	2.4	<1	<0.1	4.9	5	8	43	3400	4	1.2	6	127	1	42	<1	1.4	<0.1
XS1018	2030	9.8	6.1	3.4	63	1	15.2	<1	<0.1	9	47	3	29.3	1000	2	0.6	82	166	0.9	22	<1	17.1	<0.1
XS1019	790	2.3	3.6	0.4	17	1.1	2.1	<1	<0.1	5.7	3	3	43.7	3200	3	1	4	66	0.4	35	<1	0.9	<0.1
XS1020	490	12.3	6	5.5	8	0.7	23.7	<1	<0.1	17.7	70	<1	25	5200	<2	0.6	124	69	0.5	30	<1	24.6	<0.1
XS1021	30	<0.5	0.5	<0.2	17	<0.5	<0.5	<1	<0.1	7.4	<1	2	48.6	6200	<2	<0.5	1	58	0.8	<5	<1	<0.5	<0.1
XS1022	110	22.4	15.1	7.9	246	2.6	33.4	<1	<0.1	5.4	170	8	28.1	6700	2	4.8	183	160	10.4	30	<1	44	<0.1
XS1023	50	<0.5	<0.2	<0.2	9	0.8	<0.5	<1	<0.1	5.2	1	6	35.1	4700	3	<0.5	1	65	0.5	30	<1	<0.5	<0.1
XS1024	50	<0.5	<0.2	<0.2	16	0.8	<0.5	<1	<0.1	9	1	5	35.4	6300	3	<0.5	1	54	1.1	16	<1	<0.5	<0.1
XS1025	1330	2.8	2	0.7	23	1.1	3.9	<1	<0.1	6.5	4	7	51.9	10900	4	0.9	7	209	0.5	30	<1	1.3	<0.1
XS1026	150	1.3	0.8	0.6	27	0.8	2.8	<1	<0.1	9.3	8	12	52.2	17800	6	<0.5	14	180	0.6	16	<1	3.1	<0.1
XS1027	2850	5.1	3.6	1.3	55	2.4	7.1	<1	<0.1	11.6	22	12	51.3	2100	4	1.4	37	257	0.3	69	<1	8.1	<0.1
XS1028	250	1.1	1.3	0.4	99	16.5	1.3	<1	0.1	14.3	6	3	7.7	200	2	1.2	6	195	1.2	19	<1	1.4	<0.1
XS1029	260	10.8	5.7	4.1	200	69.4	13.5	<1	0.2	11.6	77	11	5.3	600	6	19.5	77	421	3.7	90	<1	20	<0.1
XS1030	200	10.5	5.4	4	314	93.8	12.2	2	0.5	20	52	45	11.6	7300	9	32.6	60	236	13.3	304	<1	14.6	<0.1
XS1031	160	11.1	5.8	4.3	290	80.7	12.7	2	0.4	21.4	56	45	11.4	6400	8	29.3	62	250	13.3	288	<1	15.6	<0.1
XS1032	50	16.6	7	7.8	105	65.9	23.3	<1	0.2	6.9	125	13	11.1	23200	9	18.3	141	129	6.9	127	<1	35.8	<0.1
XS1033	40	10	4.7	4.6	72	54.4	13.8	<1	0.2	8.3	62	11	10.2	13100	6	13.6	75	141	5	185	<1	18.6	<0.1
XS1034	70	8.4	4.3	3.3	116	8.1	11.1	<1	<0.1	4.6	54	5	14.3	9900	4	2.1	64	86	2.2	101	<1	15.8	<0.1
XS1035	70	5.6	3	2.6	70	76.1	7.6	1	0.2	8.9	33	26	15.7	1000	7	41.2	37	72	4.7	258	<1	9	<0.1
XS1036	40	3	1.5	1.2	120	53.5	3.3	1	0.2	9.2	20	3	2.6	200	<2	6.6	16	32	3.2	145	<1	4.4	<0.1

Sample	Cu_ppb	Dy_ppb	Er_ppb	Eu_ppb	Fe_ppm	Ga_ppb	Gd_ppb	Hg_ppb	In_ppb	K_ppm	La_ppb	Li_ppb	Mg_ppm	Mn_ppb	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	P_ppm	Pb_ppb	Pd_ppb	Pr_ppb	Pt_ppb
XS1037	40	22.2	8.5	11.1	75	61.3	32.9	<1	0.2	8.5	243	13	14.7	8700	4	22.7	219	71	6	110	<1	58.8	<0.1
XS1038	40	8.7	4.3	3.8	42	129	8.9	<1	0.3	3.6	33	8	4.3	600	2	20.5	37	73	4.6	196	<1	8.6	<0.1
XS1039	50	35.8	16.3	15.6	32	79.6	50.1	1	0.3	6.3	188	19	6	400	3	40.6	351	80	16.3	205	<1	84.4	<0.1
XS1040	460	12.6	5.8	6	5	0.7	25	<1	<0.1	12.6	76	<1	23.4	2200	<2	0.5	134	47	0.4	19	<1	26.6	<0.1
XS1041	60	27.7	11	13	88	57.5	40.1	1	0.5	6.3	205	22	5.5	300	3	44.8	217	92	11	128	<1	55.8	<0.1
XS1042	50	13	6.9	4.7	38	133	13	<1	0.5	4.4	35	6	1.7	300	2	27.1	53	64	5.7	270	<1	11.2	<0.1
XS1043	40	24.9	11.1	11.3	37	65	34.5	<1	0.4	7.3	182	11	2.3	300	3	30.8	208	114	9.9	187	<1	51	<0.1
XS1044	80	16	7.4	7.9	150	14.7	25.8	<1	0.2	7.1	155	9	9.1	1000	4	9.2	175	110	4.2	249	<1	44.3	<0.1
XS1045	290	9	4.3	3.7	64	4.4	14.6	<1	<0.1	5.9	78	5	30.9	7600	7	2.7	90	59	1.5	83	<1	21.4	<0.1
XS1046	120	5.7	3.8	1.6	220	3.6	5.9	<1	<0.1	2.5	19	7	25.7	10200	3	1.2	25	115	1	68	<1	6	<0.1
XS1047	260	7	4	2.6	178	4.9	9.5	<1	<0.1	3.6	51	9	23.8	16700	5	2.3	59	89	1.3	84	<1	14.7	<0.1
XS1048	440	3.2	2.8	0.4	3	<0.5	2.9	1	<0.1	10.4	<1	41	148	4700	3	<0.5	2	240	<0.1	125	<1	<0.5	<0.1
XS1049	380	3.8	3.8	0.4	4	<0.5	3.5	<1	<0.1	9	<1	26	105	7400	3	<0.5	2	289	<0.1	183	<1	<0.5	<0.1
XS1050	660	14.7	11.2	2.8	6	<0.5	14.8	<1	<0.1	9.2	11	39	160	2900	<2	<0.5	31	172	<0.1	117	<1	5.4	<0.1
XS1051	530	14.4	10.7	2.5	6	0.5	15.3	3	<0.1	8.7	7	29	159	4500	<2	<0.5	25	275	<0.1	95	<1	4	<0.1
XS1052	610	16.8	13.3	2.9	7	0.6	17.3	2	<0.1	7.6	10	42	170	2500	<2	<0.5	31	170	<0.1	95	<1	5.3	<0.1
XS1053	1840	6.3	4	1.3	104	3.9	6	<1	<0.1	2.7	20	3	40.9	3600	4	0.6	24	346	0.5	90	<1	5.8	<0.1
XS1054	1940	13.7	10.7	2.7	8	0.6	14.6	<1	<0.1	9.9	13	27	138	3600	<2	<0.5	35	295	<0.1	143	<1	6.9	<0.1
XS1055	510	7.8	5.2	1.6	5	0.7	8.8	<1	<0.1	13.5	4	44	115	11300	4	<0.5	15	189	<0.1	143	<1	2.5	<0.1
XS1056	420	10.7	7.3	2	5	0.7	12.3	<1	<0.1	11.5	6	47	144	8400	3	<0.5	21	210	<0.1	87	<1	3.5	<0.1
XS1057	370	10.1	6.8	2.2	6	0.6	11.1	<1	<0.1	13	8	50	115	13300	<2	<0.5	23	172	<0.1	94	<1	3.9	<0.1
XS1058	3710	9	6.1	1.5	6	1	9.7	<1	<0.1	14.5	7	30	76.8	7800	4	<0.5	20	92	<0.1	232	<1	3.3	<0.1
XS1059	6460	16	12.7	3.2	21	2.2	16.8	<1	<0.1	20.8	17	29	65.2	6000	10	0.7	43	95	<0.1	474	<1	8.2	<0.1
XS1060	490	11.8	5.3	5.7	6	0.8	22.9	<1	<0.1	15.2	83	<1	20	3100	<2	0.8	132	47	0.9	28	<1	27.2	<0.1
XS1061	1660	17	9.2	4.9	15	1.8	21.4	<1	<0.1	6.1	58	19	82.5	4400	2	1.1	89	352	0.1	237	<1	20.9	<0.1
XS1062	380	10.3	8.1	1.8	5	0.5	10.4	<1	<0.1	13	5	31	110	8700	<2	<0.5	17	193	<0.1	79	<1	2.6	<0.1
XS1063	490	9	5.9	2	6	<0.5	9.8	2	<0.1	13.5	5	33	95.7	4900	<2	<0.5	17	168	<0.1	73	<1	2.8	<0.1
XS1064	640	10.9	6.3	2.4	8	0.6	12.7	2	<0.1	8.5	9	38	97.6	4200	3	<0.5	26	213	<0.1	67	<1	4.3	<0.1
XS1065	370	21.8	11.1	7.2	74	4.1	29.3	<1	<0.1	7.1	170	7	46.2	4200	2	2.3	187	239	0.8	121	<1	47.2	<0.1
XS1066	510	33.1	21.9	7.9	18	1.3	39.3	1	<0.1	7.5	100	1	120	500	<2	<0.5	156	168	<0.1	65	<1	34.7	<0.1
XS1067	450	11	7.8	2.3	10	0.5	11.7	1	<0.1	6.4	8	13	114	5500	<2	<0.5	24	171	<0.1	102	<1	4.3	<0.1
XS1068	420	10.9	6.2	2.4	6	<0.5	12.9	<1	<0.1	14	5	48	131	6200	6	<0.5	21	176	<0.1	113	<1	3.2	<0.1
XS1069	920	8.7	5.4	1.8	5	0.6	9.6	<1	<0.1	13.1	6	43	142	9000	<2	<0.5	20	148	<0.1	115	<1	3.4	<0.1
XS1070	2260	7.6	6.2	1.4	9	0.8	7.5	<1	<0.1	17	8	35	84.7	16100	12	<0.5	20	91	<0.1	99	<1	4	<0.1
XS1071	5440	11.4	8.5	2.2	30	1.5	12.2	<1	<0.1	24.9	16	33	55.3	12100	12	<0.5	37	86	<0.1	425	<1	6.9	<0.1
*REP-XS1020	430	12.9	6.6	6	8	0.7	26.2	<1	<0.1	14.8	73	<1	24.4	3600	<2	<0.5	130	63	0.5	22	<1	26.9	<0.1
BLANK	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5	<100	<2	<0.5	<1	<5	0.1	<5	<1	<0.5	<0.1

Sample	Cu_ppb	Dy_ppb	Er_ppb	Eu_ppb	Fe_ppm	Ga_ppb	Gd_ppb	Hg_ppb	In_ppb	K_ppm	La_ppb	Li_ppb	Mg_ppm	Mn_ppb	Mo_ppb	Nb_ppb	Nd_ppb	Ni_ppb	P_ppm	Pb_ppb	Pd_ppb	Pr_ppb	Pt_ppb
*REP-XS1047	270	8.8	4.8	3.3	165	4.6	12.4	<1	<0.1	3.9	70	8	22.1	11600	5	2.4	80	88	1.1	96	<1	20.6	<0.1
MMISRM22	1530	5	2	1.6	8	2.2	7.1	9	<0.1	19.5	13	<1	32.7	700	63	<0.5	27	640	0.6	2890	24	5.8	8.7
BLANK	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5	<100	<2	<0.5	<1	<5	<0.1	6	<1	<0.5	<0.1

Sample	Rb_ppb	Sb_ppb	Sc_ppb	Se_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	V_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
METHOD	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
XS1001	38	<0.5	<5	4	2	<1	500	<1	0.1	<10	4.1	240	0.1	6.9	13	<0.5	5	0.4	1600	11
XS1002	37	<0.5	<5	<2	<1	<1	120	<1	<0.1	<10	<0.5	<10	0.2	4.9	3	<0.5	<1	<0.2	1760	<2
XS1003	111	<0.5	<5	<2	<1	<1	620	<1	<0.1	<10	4	80	0.2	5.1	9	<0.5	1	<0.2	3120	7
XS1004	124	<0.5	36	7	3	9	280	2	0.2	<10	12.5	5890	0.5	3.2	222	2.1	10	1.1	880	75
XS1005	174	0.6	52	9	5	9	480	2	0.5	<10	16.8	8140	0.6	3.7	267	2.2	15	1.5	870	93
XS1006	64	<0.5	<5	3	<1	<1	490	<1	<0.1	<10	3.1	160	0.1	2.3	8	<0.5	<1	<0.2	470	8
XS1007	56	<0.5	5	8	<1	<1	560	<1	<0.1	<10	5.1	<10	0.3	0.7	1	0.7	5	1.4	20	8
XS1008	38	<0.5	8	4	3	<1	890	<1	0.8	<10	7.8	<10	0.2	9.6	5	<0.5	31	5.2	100	19
XS1009	36	<0.5	13	4	5	<1	1180	<1	1.5	<10	11.3	<10	0.1	11.8	3	<0.5	62	14.4	310	27
XS1010	52	<0.5	8	4	7	<1	660	<1	1.3	<10	13.9	40	0.4	8.5	13	<0.5	38	3.6	180	16
XS1011	59	<0.5	5	4	3	<1	710	<1	0.7	<10	6.7	<10	0.3	5.8	3	<0.5	31	5.6	240	12
XS1012	64	<0.5	9	<2	4	<1	820	<1	1	<10	9.8	<10	0.2	8.9	3	<0.5	39	7.5	40	23
XS1013	41	<0.5	11	3	3	<1	300	<1	0.2	<10	12.6	310	0.5	4.8	78	0.5	8	0.7	390	22
XS1014	59	<0.5	26	6	4	<1	90	<1	0.5	<10	8.5	1860	0.4	2.9	168	<0.5	18	3.6	20	17
XS1015	58	<0.5	11	7	29	<1	430	<1	3	<10	20.6	270	0.2	7.9	30	<0.5	83	5.5	120	35
XS1016	30	0.5	<5	10	4	<1	640	<1	0.8	<10	12.5	<10	0.1	2.3	11	0.6	40	7.6	190	51
XS1017	20	<0.5	10	3	2	<1	340	<1	0.2	<10	7.8	170	0.2	21.4	35	<0.5	12	1.3	190	24
XS1018	48	<0.5	11	16	15	<1	360	<1	1.6	<10	16.4	90	0.2	2.4	38	0.7	74	6.7	50	194
XS1019	44	<0.5	7	<2	1	<1	300	<1	0.2	<10	4.2	40	<0.1	23.7	179	<0.5	22	5.3	170	26
XS1020	23	<0.5	13	3	24	<1	400	<1	2.5	<10	10.5	60	0.4	2.2	16	<0.5	77	4.8	60	22
XS1021	48	<0.5	<5	4	<1	<1	390	<1	<0.1	<10	<0.5	<10	<0.1	1.1	3	<0.5	5	1	80	19
XS1022	43	<0.5	30	7	34	<1	320	<1	4.2	<10	32	430	0.2	2	710	8.3	167	14.6	30	515
XS1023	27	<0.5	6	2	<1	<1	300	<1	<0.1	<10	2.1	70	<0.1	2.3	12	<0.5	<1	<0.2	390	14
XS1024	46	<0.5	7	<2	<1	<1	280	<1	<0.1	<10	1.4	80	0.1	2.9	12	0.9	<1	0.3	150	17
XS1025	39	<0.5	12	2	2	<1	360	<1	0.4	<10	7.7	130	0.4	7.6	41	<0.5	18	2.2	70	38
XS1026	51	<0.5	9	5	3	<1	440	<1	0.2	<10	8.5	160	0.2	4.9	82	<0.5	8	0.8	140	9
XS1027	46	<0.5	18	11	5	<1	520	<1	0.9	<10	17	190	0.3	12.2	97	1.1	37	4.1	260	59
XS1028	78	<0.5	19	8	1	<1	180	<1	<0.1	<10	1.6	530	0.5	0.6	88	<0.5	5	1.7	60	6
XS1029	115	0.9	59	16	14	3	160	<1	1.8	<10	20	7290	0.5	8.8	398	1.6	54	4.6	400	55
XS1030	129	1.1	108	18	13	5	270	1	1.8	<10	42.6	10500	0.6	7.4	859	2.6	49	4.7	1490	127
XS1031	132	1	106	18	13	5	290	1	1.9	<10	42.3	8990	0.8	6.8	737	2.9	50	5.1	1750	125
XS1032	74	<0.5	58	15	28	2	530	<1	3.1	<10	47.8	3670	0.5	11.1	138	2.6	67	5.9	90	106
XS1033	66	<0.5	41	8	16	2	460	<1	1.9	<10	27.5	2580	0.4	8	94	1.3	43	4.1	240	63
XS1034	36	<0.5	24	6	13	<1	250	<1	1.6	<10	10.9	570	0.2	7.6	145	0.7	41	3.5	490	18
XS1035	74	<0.5	67	6	8	9	620	3	0.9	<10	21.8	11500	0.5	5.4	248	3	28	2.8	330	105
XS1036	44	<0.5	24	11	3	<1	200	<1	0.4	<10	7.9	1280	0.4	2.3	156	<0.5	12	1.5	510	24

Sample	Rb_ppb	Sb_ppb	Sc_ppb	Se_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	V_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
XS1037	106	<0.5	70	17	41	4	410	<1	4.4	<10	19.7	6140	0.5	10.3	249	1.6	97	6.5	80	63
XS1038	48	<0.5	67	11	9	4	280	<1	1.4	<10	12.8	5740	0.2	4.2	184	1.2	38	3.9	270	54
XS1039	64	<0.5	108	17	59	7	390	3	6.7	<10	35.1	7650	0.4	9.4	265	2.4	174	11.5	160	117
XS1040	12	<0.5	18	4	25	<1	340	<1	2.6	<10	6.6	70	0.4	1	16	<0.5	93	4.6	90	17
XS1041	78	<0.5	118	19	47	5	420	2	5.6	<10	33.9	8090	0.7	10.7	366	2.5	106	7.8	180	112
XS1042	55	<0.5	95	9	13	4	260	<1	2.1	<10	16.8	6260	0.2	5	233	1.1	65	5.5	400	59
XS1043	82	<0.5	87	17	42	5	220	2	4.6	<10	32.3	5820	0.5	8.6	285	2.2	113	8.4	210	82
XS1044	61	<0.5	40	11	32	2	320	<1	3.2	<10	19.1	1530	0.2	4.4	456	1.4	79	6.3	210	45
XS1045	22	<0.5	15	9	17	<1	520	<1	1.6	<10	22.7	450	0.3	9.4	144	<0.5	48	3.9	190	55
XS1046	18	<0.5	21	3	6	<1	430	<1	0.7	<10	6.7	230	0.4	15.6	101	<0.5	39	3.1	810	31
XS1047	23	<0.5	24	4	12	<1	410	<1	1.1	<10	11.7	360	0.3	16.3	204	<0.5	43	4	350	41
XS1048	35	<0.5	<5	<2	<1	<1	1530	<1	0.4	<10	2.7	<10	0.3	2.9	7	<0.5	17	2.9	190	5
XS1049	43	<0.5	<5	7	1	<1	1080	<1	0.5	<10	5.9	<10	0.3	3.7	2	<0.5	20	4.1	250	7
XS1050	25	<0.5	21	5	10	<1	2370	<1	2.3	<10	7.8	<10	0.1	18.8	5	<0.5	76	9.9	340	7
XS1051	27	<0.5	23	3	9	<1	2340	<1	2.3	<10	7.3	<10	<0.1	14.5	5	<0.5	77	9.5	220	9
XS1052	26	<0.5	25	5	10	<1	2920	<1	2.5	<10	7.4	<10	0.1	23	7	<0.5	96	12.7	190	9
XS1053	23	1.1	32	12	5	<1	860	<1	0.9	<10	8	80	0.3	394	41	<0.5	41	3.3	430	16
XS1054	25	<0.5	23	5	10	<1	2120	<1	2.2	<10	13.2	<10	0.1	32.2	16	<0.5	64	10	130	13
XS1055	15	<0.5	22	9	5	<1	1800	<1	1.2	<10	7.2	<10	<0.1	17.4	7	<0.5	41	4.8	290	8
XS1056	16	<0.5	22	6	7	<1	1940	<1	1.7	<10	5.1	<10	<0.1	16.6	5	<0.5	60	6.5	240	7
XS1057	15	<0.5	20	4	8	<1	1700	<1	1.7	<10	7	<10	<0.1	15	4	<0.5	54	5.9	250	7
XS1058	27	0.7	16	6	6	<1	1510	<1	1.5	<10	9.8	20	0.2	19.1	21	<0.5	46	5.6	170	16
XS1059	103	1.5	23	15	12	<1	1790	<1	2.6	<10	31.9	100	0.7	28.3	57	<0.5	78	13	100	39
XS1060	22	<0.5	19	<2	25	<1	290	<1	2.4	<10	10.3	90	0.4	2.1	19	<0.5	67	4	130	18
XS1061	47	<0.5	16	7	20	<1	900	<1	3	<10	24.8	30	0.3	75.7	42	<0.5	84	7.4	200	16
XS1062	8	<0.5	11	2	6	<1	1070	<1	1.7	<10	10.2	<10	<0.1	3.5	11	<0.5	54	7	230	8
XS1063	11	<0.5	11	2	6	<1	950	<1	1.5	<10	9.8	<10	0.3	4	19	<0.5	48	5.4	220	11
XS1064	9	<0.5	11	3	9	<1	760	<1	1.8	<10	8.1	<10	0.2	6.4	14	<0.5	57	5.4	80	9
XS1065	101	<0.5	26	3	35	<1	350	<1	4.2	<10	40.9	330	0.4	21.2	64	<0.5	114	8.9	310	55
XS1066	56	<0.5	21	3	35	<1	1200	<1	5.3	<10	52	<10	0.2	55.3	4	<0.5	149	19.1	410	39
XS1067	29	<0.5	9	6	8	<1	1280	<1	1.8	<10	13.8	<10	0.3	5.8	14	<0.5	61	6.4	580	13
XS1068	27	<0.5	8	6	9	<1	1650	<1	1.7	<10	8.2	<10	0.2	25.6	6	<0.5	54	5.6	260	9
XS1069	38	<0.5	6	4	6	<1	1820	<1	1.4	<10	6.7	<10	<0.1	17.8	8	<0.5	40	4.9	330	7
XS1070	8	<0.5	6	<2	6	<1	1330	<1	1.2	<10	9.8	<10	<0.1	11.8	29	<0.5	38	5.8	120	9
XS1071	53	1.3	9	5	9	<1	1630	<1	1.8	<10	36.1	60	0.5	9.3	41	0.6	56	9	250	36
*REP-XS1020	16	<0.5	16	4	26	<1	380	<1	2.6	<10	9.8	60	0.3	1.8	14	<0.5	86	5.2	70	19
BLANK	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2

Sample	Rb_ppb	Sb_ppb	Sc_ppb	Se_ppb	Sm_ppb	Sn_ppb	Sr_ppb	Ta_ppb	Tb_ppb	Te_ppb	Th_ppb	Ti_ppb	Tl_ppb	U_ppb	V_ppb	W_ppb	Y_ppb	Yb_ppb	Zn_ppb	Zr_ppb
*REP-XS1047	23	<0.5	26	5	15	<1	390	<1	1.6	<10	14.8	350	0.2	15	196	<0.5	52	4.3	340	45
MMISRM22	129	1.1	25	10	7	<1	290	<1	1	<10	29.8	30	0.1	13.9	119	0.6	25	1.3	1730	29
BLANK	1	<0.5	8	<2	<1	<1	<10	<1	<0.1	<10	0.7	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2

Appendix 4. Analytical Certificates

ANALYSIS REPORT BBM21-14740

To COD SGS MINERALS - GEOCHEM VANCOUVER
XANDER RESOURCES – DEEPAK VARSHNEY
SGS CANADA INC
3260 PRODUCTION WAY
BURNABY V5A 4W4
BC
CANADA

Project	Northern Mineral Exploration Services - Andrew Tims / Xander Resources - Deepak Varshney	Date Received	05-Nov-2021
		Date Analysed	07-Dec-2021 - 13-Feb-2022
Submission Number	*BBY* Xander Resources / Timmins-Nickel / 71 Samples	Date Completed	13-Feb-2022
		SGS Order Number	BBM21-14740
Number of Samples	71		

Methods Summary

Number of Sample	Method Code	Description
71	G_WGH_KG	Weight of samples received
71	GE_MMIME	Mobile Metal ION enhanced package, ICP-MS

Authorised Signatory

John Chiang
Laboratory Operations Manager

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	WTKG	Ag	Al	As	Au	Ba
Method	G_WGH_KG	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.01	0.5	1	10	0.1	10
Upper Limit	--	--	--	--	--	--
Unit	kg	ppb	ppm m / m	ppb	ppb	ppb
XS1001	0.61	3.5	56	<10	<0.1	550
XS1002	0.64	<0.5	3	<10	<0.1	90
XS1003	0.62	3.0	40	<10	<0.1	730
XS1004	0.51	<0.5	97	30	<0.1	1220
XS1005	0.44	0.5	171	30	<0.1	2040
XS1006	0.61	1.2	19	<10	<0.1	300
XS1007	0.48	2.6	11	<10	<0.1	420
XS1008	0.51	1.5	22	<10	<0.1	1040
XS1009	0.65	2.8	26	<10	0.3	790
XS1010	0.51	13.2	22	<10	0.2	1030
XS1011	0.62	5.3	32	<10	<0.1	600
XS1012	0.54	3.4	39	<10	0.1	920
XS1013	0.57	3.2	38	10	<0.1	510
XS1014	0.34	<0.5	262	<10	<0.1	460
XS1015	0.62	1.0	98	<10	0.1	390
XS1016	0.60	2.7	18	<10	0.4	1380
XS1017	0.66	1.3	38	<10	<0.1	140
XS1018	0.71	4.4	24	<10	0.5	590
XS1019	0.55	0.6	11	<10	<0.1	80
XS1020	0.42	0.9	21	<10	0.1	410
XS1021	0.59	<0.5	<1	<10	<0.1	160
XS1022	0.55	1.5	38	50	<0.1	1720
XS1023	0.64	<0.5	11	<10	<0.1	120
XS1024	0.66	<0.5	6	<10	<0.1	80
XS1025	0.45	4.1	17	<10	0.2	600
XS1026	0.68	4.7	25	<10	<0.1	310
XS1027	0.73	5.1	25	<10	0.2	540
XS1028	0.36	<0.5	198	<10	<0.1	460
XS1029	0.40	1.0	398	30	<0.1	1200

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	WTKG	Ag	Al	As	Au	Ba
Method	G_WGH_KG	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.01	0.5	1	10	0.1	10
Upper Limit	--	--	--	--	--	--
Unit	kg	ppb	ppm m / m	ppb	ppb	ppb
XS1030	0.51	4.8	442	50	<0.1	3460
XS1031	0.61	6.4	486	50	<0.1	3720
XS1032	0.37	0.6	516	20	0.6	1430
XS1033	0.48	<0.5	391	20	<0.1	1080
XS1034	0.54	<0.5	137	10	<0.1	560
XS1035	0.61	<0.5	169	30	<0.1	1580
XS1036	0.48	<0.5	372	10	<0.1	630
XS1037	0.54	<0.5	468	10	<0.1	1810
XS1038	0.46	<0.5	567	10	<0.1	970
XS1039	0.55	<0.5	436	10	<0.1	3110
XS1040	0.55	1.2	13	10	0.1	500
XS1041	0.44	<0.5	637	30	<0.1	1660
XS1042	0.48	<0.5	510	20	0.2	580
XS1043	0.53	<0.5	491	30	<0.1	1800
XS1044	0.68	<0.5	180	40	<0.1	1580
XS1045	0.51	1.9	56	10	0.2	520
XS1046	0.54	0.6	60	10	<0.1	910
XS1047	0.52	1.5	62	20	<0.1	940
XS1048	0.54	4.3	14	<10	0.2	1160
XS1049	0.57	1.0	21	<10	0.2	720
XS1050	0.43	16.6	16	<10	0.2	1780
XS1051	0.48	18.7	15	<10	0.2	1550
XS1052	0.61	17.4	18	<10	0.3	1730
XS1053	0.66	1.1	65	<10	<0.1	250
XS1054	0.51	14.3	16	<10	<0.1	1920
XS1055	0.70	8.9	13	<10	<0.1	1260
XS1056	0.62	10.0	14	<10	<0.1	1360
XS1057	0.61	8.8	14	<10	<0.1	1230
XS1058	0.49	12.4	14	<10	0.1	2210

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	WTKG	Ag	Al	As	Au	Ba
Method	G_WGH_KG	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.01	0.5	1	10	0.1	10
Upper Limit	--	--	--	--	--	--
Unit	kg	ppb	ppm m / m	ppb	ppb	ppb
XS1059	0.60	17.9	21	<10	0.2	3130
XS1060	0.51	5.4	10	<10	<0.1	410
XS1061	0.55	15.2	41	<10	<0.1	900
XS1062	0.83	4.9	13	<10	0.2	970
XS1063	0.55	5.0	12	<10	0.3	1290
XS1064	0.58	9.3	13	<10	0.3	1080
XS1065	0.67	6.2	135	<10	<0.1	720
XS1066	0.74	14.3	38	<10	0.1	1460
XS1067	0.52	5.6	19	<10	0.3	1230
XS1068	0.44	9.9	17	<10	<0.1	1280
XS1069	0.57	8.7	12	<10	<0.1	1680
XS1070	0.70	8.5	12	<10	<0.1	1550
XS1071	0.38	13.1	23	<10	0.2	2370
*Rep XS1020	-	1.5	20	<10	0.2	370
*Blk BLANK	-	<0.5	<1	<10	<0.1	<10
*Rep XS1047	-	1.4	61	20	<0.1	860
*Std MMISRM22	-	353	38	20	10.6	50
*Blk BLANK	-	<0.5	<1	<10	<0.1	<10

Element	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	2	1	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1001	<0.5	383	15	21	13	33
XS1002	<0.5	197	16	<2	14	16
XS1003	<0.5	399	20	3	21	31
XS1004	2.8	99	11	32	13	133

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	2	1	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1005	2.3	126	15	58	16	200
XS1006	<0.5	375	10	4	8	19
XS1007	<0.5	330	8	<2	35	20
XS1008	<0.5	436	7	2	126	49
XS1009	<0.5	447	8	4	121	69
XS1010	<0.5	352	5	19	86	18
XS1011	<0.5	439	12	6	115	38
XS1012	<0.5	477	7	5	77	70
XS1013	<0.5	316	14	31	52	58
XS1014	<0.5	6	6	39	83	96
XS1015	<0.5	377	7	372	31	76
XS1016	<0.5	349	7	14	72	73
XS1017	<0.5	336	7	11	52	30
XS1018	<0.5	403	9	113	52	36
XS1019	<0.5	278	4	6	12	28
XS1020	<0.5	308	8	49	74	21
XS1021	<0.5	284	5	<2	23	3
XS1022	0.6	300	3	367	61	120
XS1023	<0.5	233	7	3	28	20
XS1024	<0.5	179	5	2	56	24
XS1025	<0.5	317	17	8	69	27
XS1026	<0.5	375	3	37	128	54
XS1027	<0.5	339	9	54	36	37
XS1028	<0.5	30	6	11	89	76
XS1029	0.7	23	9	153	45	229
XS1030	1.8	52	16	120	169	549
XS1031	1.7	56	15	126	152	560
XS1032	<0.5	260	5	391	35	352
XS1033	0.5	193	8	182	24	210

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	2	1	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1034	<0.5	199	17	216	191	44
XS1035	1.6	191	9	73	21	471
XS1036	0.7	23	5	36	15	94
XS1037	0.8	151	4	484	10	230
XS1038	0.9	25	2	67	18	265
XS1039	1.4	37	7	561	17	567
XS1040	<0.5	259	3	28	42	13
XS1041	1.7	47	3	429	18	534
XS1042	1.9	25	8	79	18	383
XS1043	1.4	24	2	413	23	469
XS1044	0.9	115	2	371	43	154
XS1045	<0.5	230	7	169	51	89
XS1046	<0.5	232	19	50	32	16
XS1047	<0.5	240	15	127	52	35
XS1048	<0.5	405	3	<2	242	7
XS1049	<0.5	340	9	<2	329	3
XS1050	<0.5	629	6	24	127	21
XS1051	<0.5	576	7	70	142	22
XS1052	<0.5	615	4	29	91	23
XS1053	<0.5	274	15	42	77	10
XS1054	<0.5	603	15	43	229	25
XS1055	<0.5	419	7	25	306	7
XS1056	<0.5	507	7	33	145	9
XS1057	<0.5	434	6	52	281	8
XS1058	<0.5	360	16	23	84	15
XS1059	<0.5	401	15	58	48	47
XS1060	<0.5	234	5	66	77	11
XS1061	<0.5	453	20	135	73	40
XS1062	<0.5	410	3	25	96	8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	2	1	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1063	<0.5	349	4	19	91	11
XS1064	<0.5	403	5	28	75	11
XS1065	<0.5	292	13	370	55	66
XS1066	<0.5	522	6	199	13	110
XS1067	<0.5	423	4	18	97	23
XS1068	<0.5	363	7	28	131	12
XS1069	<0.5	383	5	24	242	9
XS1070	<0.5	391	11	25	92	11
XS1071	<0.5	362	10	53	68	56
*Rep XS1020	<0.5	315	5	42	59	20
*Blk BLANK	<0.5	<2	<1	<2	<1	<1
*Rep XS1047	<0.5	252	12	183	42	38
*Std MMISRM22	<0.5	111	13	42	77	53
*Blk BLANK	<0.5	4	<1	<2	<1	<1

Element	Cs	Cu	Dy	Er	Eu	Fe
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.2	10	0.5	0.2	0.2	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppm m / m
XS1001	1.0	100	0.9	0.4	0.6	12
XS1002	0.9	110	<0.5	<0.2	<0.2	5
XS1003	1.3	110	<0.5	<0.2	0.2	7
XS1004	2.4	70	1.7	1.1	1.0	49
XS1005	4.4	130	2.9	1.6	1.7	68
XS1006	0.8	60	<0.5	<0.2	0.2	5
XS1007	<0.2	60	0.8	0.9	<0.2	16
XS1008	0.3	430	6.0	4.7	1.2	8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Cs	Cu	Dy	Er	Eu	Fe
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.2	10	0.5	0.2	0.2	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppm m / m
XS1009	<0.2	540	11.1	11.8	1.5	5
XS1010	0.3	380	6.9	4.4	2.0	9
XS1011	0.2	630	5.5	4.9	0.8	6
XS1012	0.2	280	7.2	6.0	1.4	8
XS1013	1.4	110	1.4	0.7	0.6	43
XS1014	4.2	260	3.5	2.9	1.1	154
XS1015	2.6	290	14.5	7.1	6.5	18
XS1016	<0.2	4090	5.8	5.4	1.1	28
XS1017	1.1	500	1.7	1.3	0.5	17
XS1018	0.2	2030	9.8	6.1	3.4	63
XS1019	0.6	790	2.3	3.6	0.4	17
XS1020	0.2	490	12.3	6.0	5.5	8
XS1021	0.3	30	<0.5	0.5	<0.2	17
XS1022	0.8	110	22.4	15.1	7.9	246
XS1023	0.5	50	<0.5	<0.2	<0.2	9
XS1024	0.8	50	<0.5	<0.2	<0.2	16
XS1025	0.7	1330	2.8	2.0	0.7	23
XS1026	2.4	150	1.3	0.8	0.6	27
XS1027	1.0	2850	5.1	3.6	1.3	55
XS1028	4.5	250	1.1	1.3	0.4	99
XS1029	6.9	260	10.8	5.7	4.1	200
XS1030	4.1	200	10.5	5.4	4.0	314
XS1031	4.7	160	11.1	5.8	4.3	290
XS1032	3.0	50	16.6	7.0	7.8	105
XS1033	2.1	40	10.0	4.7	4.6	72
XS1034	1.8	70	8.4	4.3	3.3	116
XS1035	2.9	70	5.6	3.0	2.6	70
XS1036	3.0	40	3.0	1.5	1.2	120
XS1037	5.5	40	22.2	8.5	11.1	75

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Cs	Cu	Dy	Er	Eu	Fe
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.2	10	0.5	0.2	0.2	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppm m / m
XS1038	1.3	40	8.7	4.3	3.8	42
XS1039	4.1	50	35.8	16.3	15.6	32
XS1040	<0.2	460	12.6	5.8	6.0	5
XS1041	6.7	60	27.7	11.0	13.0	88
XS1042	2.3	50	13.0	6.9	4.7	38
XS1043	7.8	40	24.9	11.1	11.3	37
XS1044	3.0	80	16.0	7.4	7.9	150
XS1045	1.1	290	9.0	4.3	3.7	64
XS1046	0.6	120	5.7	3.8	1.6	220
XS1047	0.9	260	7.0	4.0	2.6	178
XS1048	0.3	440	3.2	2.8	0.4	3
XS1049	0.3	380	3.8	3.8	0.4	4
XS1050	<0.2	660	14.7	11.2	2.8	6
XS1051	<0.2	530	14.4	10.7	2.5	6
XS1052	<0.2	610	16.8	13.3	2.9	7
XS1053	0.9	1840	6.3	4.0	1.3	104
XS1054	<0.2	1940	13.7	10.7	2.7	8
XS1055	<0.2	510	7.8	5.2	1.6	5
XS1056	<0.2	420	10.7	7.3	2.0	5
XS1057	<0.2	370	10.1	6.8	2.2	6
XS1058	0.2	3710	9.0	6.1	1.5	6
XS1059	1.5	6460	16.0	12.7	3.2	21
XS1060	0.2	490	11.8	5.3	5.7	6
XS1061	0.8	1660	17.0	9.2	4.9	15
XS1062	<0.2	380	10.3	8.1	1.8	5
XS1063	<0.2	490	9.0	5.9	2.0	6
XS1064	<0.2	640	10.9	6.3	2.4	8
XS1065	1.4	370	21.8	11.1	7.2	74
XS1066	0.4	510	33.1	21.9	7.9	18

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Cs	Cu	Dy	Er	Eu	Fe
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.2	10	0.5	0.2	0.2	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppm m / m
XS1067	0.3	450	11.0	7.8	2.3	10
XS1068	<0.2	420	10.9	6.2	2.4	6
XS1069	0.2	920	8.7	5.4	1.8	5
XS1070	<0.2	2260	7.6	6.2	1.4	9
XS1071	0.5	5440	11.4	8.5	2.2	30
*Rep XS1020	<0.2	430	12.9	6.6	6.0	8
*Blk BLANK	<0.2	<10	<0.5	<0.2	<0.2	<1
*Rep XS1047	0.9	270	8.8	4.8	3.3	165
*Std MMISRM22	7.8	1530	5.0	2.0	1.6	8
*Blk BLANK	<0.2	<10	<0.5	<0.2	<0.2	<1

Element	Ga	Gd	Hg	In	K	La
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	0.5	1	0.1	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppm m / m	ppb
XS1001	3.4	2.1	<1	<0.1	6.4	7
XS1002	0.6	<0.5	<1	<0.1	7.7	<1
XS1003	1.4	0.7	<1	<0.1	10.2	1
XS1004	35.4	2.6	<1	0.2	16.2	15
XS1005	48.2	4.2	<1	0.2	17.2	27
XS1006	1.6	0.9	<1	<0.1	6.5	2
XS1007	<0.5	1.0	<1	<0.1	11.8	<1
XS1008	<0.5	6.2	<1	<0.1	13.1	2
XS1009	<0.5	10.0	<1	<0.1	23.4	4
XS1010	<0.5	11.6	1	<0.1	12.5	8
XS1011	<0.5	5.0	<1	<0.1	11.8	3
XS1012	<0.5	7.4	<1	<0.1	13.7	4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Ga	Gd	Hg	In	K	La
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	0.5	1	0.1	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppm m / m	ppb
XS1013	3.3	2.8	<1	<0.1	5.1	13
XS1014	33.9	3.4	<1	0.2	8.7	20
XS1015	3.2	25.8	<1	<0.1	4.5	140
XS1016	<0.5	6.3	<1	<0.1	20.6	4
XS1017	1.9	2.4	<1	<0.1	4.9	5
XS1018	1.0	15.2	<1	<0.1	9.0	47
XS1019	1.1	2.1	<1	<0.1	5.7	3
XS1020	0.7	23.7	<1	<0.1	17.7	70
XS1021	<0.5	<0.5	<1	<0.1	7.4	<1
XS1022	2.6	33.4	<1	<0.1	5.4	170
XS1023	0.8	<0.5	<1	<0.1	5.2	1
XS1024	0.8	<0.5	<1	<0.1	9.0	1
XS1025	1.1	3.9	<1	<0.1	6.5	4
XS1026	0.8	2.8	<1	<0.1	9.3	8
XS1027	2.4	7.1	<1	<0.1	11.6	22
XS1028	16.5	1.3	<1	0.1	14.3	6
XS1029	69.4	13.5	<1	0.2	11.6	77
XS1030	93.8	12.2	2	0.5	20.0	52
XS1031	80.7	12.7	2	0.4	21.4	56
XS1032	65.9	23.3	<1	0.2	6.9	125
XS1033	54.4	13.8	<1	0.2	8.3	62
XS1034	8.1	11.1	<1	<0.1	4.6	54
XS1035	76.1	7.6	1	0.2	8.9	33
XS1036	53.5	3.3	1	0.2	9.2	20
XS1037	61.3	32.9	<1	0.2	8.5	243
XS1038	129	8.9	<1	0.3	3.6	33
XS1039	79.6	50.1	1	0.3	6.3	188
XS1040	0.7	25.0	<1	<0.1	12.6	76
XS1041	57.5	40.1	1	0.5	6.3	205

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Ga	Gd	Hg	In	K	La
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	0.5	1	0.1	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppm m / m	ppb
XS1042	133	13.0	<1	0.5	4.4	35
XS1043	65.0	34.5	<1	0.4	7.3	182
XS1044	14.7	25.8	<1	0.2	7.1	155
XS1045	4.4	14.6	<1	<0.1	5.9	78
XS1046	3.6	5.9	<1	<0.1	2.5	19
XS1047	4.9	9.5	<1	<0.1	3.6	51
XS1048	<0.5	2.9	1	<0.1	10.4	<1
XS1049	<0.5	3.5	<1	<0.1	9.0	<1
XS1050	<0.5	14.8	<1	<0.1	9.2	11
XS1051	0.5	15.3	3	<0.1	8.7	7
XS1052	0.6	17.3	2	<0.1	7.6	10
XS1053	3.9	6.0	<1	<0.1	2.7	20
XS1054	0.6	14.6	<1	<0.1	9.9	13
XS1055	0.7	8.8	<1	<0.1	13.5	4
XS1056	0.7	12.3	<1	<0.1	11.5	6
XS1057	0.6	11.1	<1	<0.1	13.0	8
XS1058	1.0	9.7	<1	<0.1	14.5	7
XS1059	2.2	16.8	<1	<0.1	20.8	17
XS1060	0.8	22.9	<1	<0.1	15.2	83
XS1061	1.8	21.4	<1	<0.1	6.1	58
XS1062	0.5	10.4	<1	<0.1	13.0	5
XS1063	<0.5	9.8	2	<0.1	13.5	5
XS1064	0.6	12.7	2	<0.1	8.5	9
XS1065	4.1	29.3	<1	<0.1	7.1	170
XS1066	1.3	39.3	1	<0.1	7.5	100
XS1067	0.5	11.7	1	<0.1	6.4	8
XS1068	<0.5	12.9	<1	<0.1	14.0	5
XS1069	0.6	9.6	<1	<0.1	13.1	6
XS1070	0.8	7.5	<1	<0.1	17.0	8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Ga	Gd	Hg	In	K	La
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.5	0.5	1	0.1	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppm m / m	ppb
XS1071	1.5	12.2	<1	<0.1	24.9	16
*Rep XS1020	0.7	26.2	<1	<0.1	14.8	73
*Blk BLANK	<0.5	<0.5	<1	<0.1	<0.5	<1
*Rep XS1047	4.6	12.4	<1	<0.1	3.9	70
*Std MMISRM22	2.2	7.1	9	<0.1	19.5	13
*Blk BLANK	<0.5	<0.5	<1	<0.1	<0.5	<1

Element	Li	Mg	Mn	Mo	Nb	Nd
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	100	2	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1001	4	36.1	4400	2	1.6	9
XS1002	2	34.5	4600	<2	<0.5	<1
XS1003	9	50.2	6000	4	0.7	2
XS1004	14	8.5	1500	8	25.1	14
XS1005	21	10.8	1100	7	27.2	24
XS1006	3	36.2	3000	4	1.1	3
XS1007	12	77.8	16000	7	<0.5	1
XS1008	7	88.7	3500	2	<0.5	8
XS1009	3	139	2500	<2	<0.5	15
XS1010	19	94.7	4500	<2	<0.5	18
XS1011	11	101	3700	<2	<0.5	9
XS1012	4	116	2600	2	<0.5	13
XS1013	8	28.5	9300	5	2.1	17
XS1014	4	1.5	<100	3	6.5	18
XS1015	1	38.1	2500	2	1.4	162
XS1016	8	65.6	6700	<2	<0.5	13

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Li	Mg	Mn	Mo	Nb	Nd
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	100	2	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1017	8	43.0	3400	4	1.2	6
XS1018	3	29.3	1000	2	0.6	82
XS1019	3	43.7	3200	3	1.0	4
XS1020	<1	25.0	5200	<2	0.6	124
XS1021	2	48.6	6200	<2	<0.5	1
XS1022	8	28.1	6700	2	4.8	183
XS1023	6	35.1	4700	3	<0.5	1
XS1024	5	35.4	6300	3	<0.5	1
XS1025	7	51.9	10900	4	0.9	7
XS1026	12	52.2	17800	6	<0.5	14
XS1027	12	51.3	2100	4	1.4	37
XS1028	3	7.7	200	2	1.2	6
XS1029	11	5.3	600	6	19.5	77
XS1030	45	11.6	7300	9	32.6	60
XS1031	45	11.4	6400	8	29.3	62
XS1032	13	11.1	23200	9	18.3	141
XS1033	11	10.2	13100	6	13.6	75
XS1034	5	14.3	9900	4	2.1	64
XS1035	26	15.7	1000	7	41.2	37
XS1036	3	2.6	200	<2	6.6	16
XS1037	13	14.7	8700	4	22.7	219
XS1038	8	4.3	600	2	20.5	37
XS1039	19	6.0	400	3	40.6	351
XS1040	<1	23.4	2200	<2	0.5	134
XS1041	22	5.5	300	3	44.8	217
XS1042	6	1.7	300	2	27.1	53
XS1043	11	2.3	300	3	30.8	208
XS1044	9	9.1	1000	4	9.2	175
XS1045	5	30.9	7600	7	2.7	90

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Li	Mg	Mn	Mo	Nb	Nd
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	100	2	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1046	7	25.7	10200	3	1.2	25
XS1047	9	23.8	16700	5	2.3	59
XS1048	41	148	4700	3	<0.5	2
XS1049	26	105	7400	3	<0.5	2
XS1050	39	160	2900	<2	<0.5	31
XS1051	29	159	4500	<2	<0.5	25
XS1052	42	170	2500	<2	<0.5	31
XS1053	3	40.9	3600	4	0.6	24
XS1054	27	138	3600	<2	<0.5	35
XS1055	44	115	11300	4	<0.5	15
XS1056	47	144	8400	3	<0.5	21
XS1057	50	115	13300	<2	<0.5	23
XS1058	30	76.8	7800	4	<0.5	20
XS1059	29	65.2	6000	10	0.7	43
XS1060	<1	20.0	3100	<2	0.8	132
XS1061	19	82.5	4400	2	1.1	89
XS1062	31	110	8700	<2	<0.5	17
XS1063	33	95.7	4900	<2	<0.5	17
XS1064	38	97.6	4200	3	<0.5	26
XS1065	7	46.2	4200	2	2.3	187
XS1066	1	120	500	<2	<0.5	156
XS1067	13	114	5500	<2	<0.5	24
XS1068	48	131	6200	6	<0.5	21
XS1069	43	142	9000	<2	<0.5	20
XS1070	35	84.7	16100	12	<0.5	20
XS1071	33	55.3	12100	12	<0.5	37
*Rep XS1020	<1	24.4	3600	<2	<0.5	130
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1
*Rep XS1047	8	22.1	11600	5	2.4	80

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Li	Mg	Mn	Mo	Nb	Nd
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	100	2	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
*Std MMISRM22	<1	32.7	700	63	<0.5	27
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1

Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1001	101	1.4	48	<1	2.2	<0.1
XS1002	92	0.4	41	<1	<0.5	<0.1
XS1003	121	1.1	40	<1	<0.5	<0.1
XS1004	49	4.3	370	<1	3.8	<0.1
XS1005	60	5.4	252	<1	6.5	<0.1
XS1006	56	1.1	98	<1	0.6	<0.1
XS1007	197	0.3	7	<1	<0.5	<0.1
XS1008	171	0.2	21	<1	1.4	<0.1
XS1009	177	0.1	23	<1	2.5	<0.1
XS1010	178	<0.1	67	<1	2.8	<0.1
XS1011	254	0.1	67	<1	1.6	<0.1
XS1012	253	0.1	28	<1	2.3	<0.1
XS1013	74	1.4	45	<1	4.1	<0.1
XS1014	192	1.5	19	<1	4.7	<0.1
XS1015	82	0.4	46	<1	40.0	<0.1
XS1016	157	0.2	113	<1	2.3	<0.1
XS1017	127	1.0	42	<1	1.4	<0.1
XS1018	166	0.9	22	<1	17.1	<0.1
XS1019	66	0.4	35	<1	0.9	<0.1
XS1020	69	0.5	30	<1	24.6	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1021	58	0.8	<5	<1	<0.5	<0.1
XS1022	160	10.4	30	<1	44.0	<0.1
XS1023	65	0.5	30	<1	<0.5	<0.1
XS1024	54	1.1	16	<1	<0.5	<0.1
XS1025	209	0.5	30	<1	1.3	<0.1
XS1026	180	0.6	16	<1	3.1	<0.1
XS1027	257	0.3	69	<1	8.1	<0.1
XS1028	195	1.2	19	<1	1.4	<0.1
XS1029	421	3.7	90	<1	20.0	<0.1
XS1030	236	13.3	304	<1	14.6	<0.1
XS1031	250	13.3	288	<1	15.6	<0.1
XS1032	129	6.9	127	<1	35.8	<0.1
XS1033	141	5.0	185	<1	18.6	<0.1
XS1034	86	2.2	101	<1	15.8	<0.1
XS1035	72	4.7	258	<1	9.0	<0.1
XS1036	32	3.2	145	<1	4.4	<0.1
XS1037	71	6.0	110	<1	58.8	<0.1
XS1038	73	4.6	196	<1	8.6	<0.1
XS1039	80	16.3	205	<1	84.4	<0.1
XS1040	47	0.4	19	<1	26.6	<0.1
XS1041	92	11.0	128	<1	55.8	<0.1
XS1042	64	5.7	270	<1	11.2	<0.1
XS1043	114	9.9	187	<1	51.0	<0.1
XS1044	110	4.2	249	<1	44.3	<0.1
XS1045	59	1.5	83	<1	21.4	<0.1
XS1046	115	1.0	68	<1	6.0	<0.1
XS1047	89	1.3	84	<1	14.7	<0.1
XS1048	240	<0.1	125	<1	<0.5	<0.1
XS1049	289	<0.1	183	<1	<0.5	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
XS1050	172	<0.1	117	<1	5.4	<0.1
XS1051	275	<0.1	95	<1	4.0	<0.1
XS1052	170	<0.1	95	<1	5.3	<0.1
XS1053	346	0.5	90	<1	5.8	<0.1
XS1054	295	<0.1	143	<1	6.9	<0.1
XS1055	189	<0.1	143	<1	2.5	<0.1
XS1056	210	<0.1	87	<1	3.5	<0.1
XS1057	172	<0.1	94	<1	3.9	<0.1
XS1058	92	<0.1	232	<1	3.3	<0.1
XS1059	95	<0.1	474	<1	8.2	<0.1
XS1060	47	0.9	28	<1	27.2	<0.1
XS1061	352	0.1	237	<1	20.9	<0.1
XS1062	193	<0.1	79	<1	2.6	<0.1
XS1063	168	<0.1	73	<1	2.8	<0.1
XS1064	213	<0.1	67	<1	4.3	<0.1
XS1065	239	0.8	121	<1	47.2	<0.1
XS1066	168	<0.1	65	<1	34.7	<0.1
XS1067	171	<0.1	102	<1	4.3	<0.1
XS1068	176	<0.1	113	<1	3.2	<0.1
XS1069	148	<0.1	115	<1	3.4	<0.1
XS1070	91	<0.1	99	<1	4.0	<0.1
XS1071	86	<0.1	425	<1	6.9	<0.1
*Rep XS1020	63	0.5	22	<1	26.9	<0.1
*Blk BLANK	<5	0.1	<5	<1	<0.5	<0.1
*Rep XS1047	88	1.1	96	<1	20.6	<0.1
*Std MMISRM22	640	0.6	2890	24	5.8	8.7
*Blk BLANK	<5	<0.1	6	<1	<0.5	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Rb	Sb	Sc	Se	Sm	Sn
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	5	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1001	38	<0.5	<5	4	2	<1
XS1002	37	<0.5	<5	<2	<1	<1
XS1003	111	<0.5	<5	<2	<1	<1
XS1004	124	<0.5	36	7	3	9
XS1005	174	0.6	52	9	5	9
XS1006	64	<0.5	<5	3	<1	<1
XS1007	56	<0.5	5	8	<1	<1
XS1008	38	<0.5	8	4	3	<1
XS1009	36	<0.5	13	4	5	<1
XS1010	52	<0.5	8	4	7	<1
XS1011	59	<0.5	5	4	3	<1
XS1012	64	<0.5	9	<2	4	<1
XS1013	41	<0.5	11	3	3	<1
XS1014	59	<0.5	26	6	4	<1
XS1015	58	<0.5	11	7	29	<1
XS1016	30	0.5	<5	10	4	<1
XS1017	20	<0.5	10	3	2	<1
XS1018	48	<0.5	11	16	15	<1
XS1019	44	<0.5	7	<2	1	<1
XS1020	23	<0.5	13	3	24	<1
XS1021	48	<0.5	<5	4	<1	<1
XS1022	43	<0.5	30	7	34	<1
XS1023	27	<0.5	6	2	<1	<1
XS1024	46	<0.5	7	<2	<1	<1
XS1025	39	<0.5	12	2	2	<1
XS1026	51	<0.5	9	5	3	<1
XS1027	46	<0.5	18	11	5	<1
XS1028	78	<0.5	19	8	1	<1
XS1029	115	0.9	59	16	14	3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Rb	Sb	Sc	Se	Sm	Sn
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	5	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1030	129	1.1	108	18	13	5
XS1031	132	1.0	106	18	13	5
XS1032	74	<0.5	58	15	28	2
XS1033	66	<0.5	41	8	16	2
XS1034	36	<0.5	24	6	13	<1
XS1035	74	<0.5	67	6	8	9
XS1036	44	<0.5	24	11	3	<1
XS1037	106	<0.5	70	17	41	4
XS1038	48	<0.5	67	11	9	4
XS1039	64	<0.5	108	17	59	7
XS1040	12	<0.5	18	4	25	<1
XS1041	78	<0.5	118	19	47	5
XS1042	55	<0.5	95	9	13	4
XS1043	82	<0.5	87	17	42	5
XS1044	61	<0.5	40	11	32	2
XS1045	22	<0.5	15	9	17	<1
XS1046	18	<0.5	21	3	6	<1
XS1047	23	<0.5	24	4	12	<1
XS1048	35	<0.5	<5	<2	<1	<1
XS1049	43	<0.5	<5	7	1	<1
XS1050	25	<0.5	21	5	10	<1
XS1051	27	<0.5	23	3	9	<1
XS1052	26	<0.5	25	5	10	<1
XS1053	23	1.1	32	12	5	<1
XS1054	25	<0.5	23	5	10	<1
XS1055	15	<0.5	22	9	5	<1
XS1056	16	<0.5	22	6	7	<1
XS1057	15	<0.5	20	4	8	<1
XS1058	27	0.7	16	6	6	<1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Rb	Sb	Sc	Se	Sm	Sn
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	1	0.5	5	2	1	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1059	103	1.5	23	15	12	<1
XS1060	22	<0.5	19	<2	25	<1
XS1061	47	<0.5	16	7	20	<1
XS1062	8	<0.5	11	2	6	<1
XS1063	11	<0.5	11	2	6	<1
XS1064	9	<0.5	11	3	9	<1
XS1065	101	<0.5	26	3	35	<1
XS1066	56	<0.5	21	3	35	<1
XS1067	29	<0.5	9	6	8	<1
XS1068	27	<0.5	8	6	9	<1
XS1069	38	<0.5	6	4	6	<1
XS1070	8	<0.5	6	<2	6	<1
XS1071	53	1.3	9	5	9	<1
*Rep XS1020	16	<0.5	16	4	26	<1
*Blk BLANK	<1	<0.5	<5	<2	<1	<1
*Rep XS1047	23	<0.5	26	5	15	<1
*Std MMISRM22	129	1.1	25	10	7	<1
*Blk BLANK	1	<0.5	8	<2	<1	<1

Element	Sr	Ta	Tb	Te	Th	Ti
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	10	1	0.1	10	0.5	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1001	500	<1	0.1	<10	4.1	240
XS1002	120	<1	<0.1	<10	<0.5	<10
XS1003	620	<1	<0.1	<10	4.0	80
XS1004	280	2	0.2	<10	12.5	5890

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Sr	Ta	Tb	Te	Th	Ti
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	10	1	0.1	10	0.5	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1005	480	2	0.5	<10	16.8	8140
XS1006	490	<1	<0.1	<10	3.1	160
XS1007	560	<1	<0.1	<10	5.1	<10
XS1008	890	<1	0.8	<10	7.8	<10
XS1009	1180	<1	1.5	<10	11.3	<10
XS1010	660	<1	1.3	<10	13.9	40
XS1011	710	<1	0.7	<10	6.7	<10
XS1012	820	<1	1.0	<10	9.8	<10
XS1013	300	<1	0.2	<10	12.6	310
XS1014	90	<1	0.5	<10	8.5	1860
XS1015	430	<1	3.0	<10	20.6	270
XS1016	640	<1	0.8	<10	12.5	<10
XS1017	340	<1	0.2	<10	7.8	170
XS1018	360	<1	1.6	<10	16.4	90
XS1019	300	<1	0.2	<10	4.2	40
XS1020	400	<1	2.5	<10	10.5	60
XS1021	390	<1	<0.1	<10	<0.5	<10
XS1022	320	<1	4.2	<10	32.0	430
XS1023	300	<1	<0.1	<10	2.1	70
XS1024	280	<1	<0.1	<10	1.4	80
XS1025	360	<1	0.4	<10	7.7	130
XS1026	440	<1	0.2	<10	8.5	160
XS1027	520	<1	0.9	<10	17.0	190
XS1028	180	<1	<0.1	<10	1.6	530
XS1029	160	<1	1.8	<10	20.0	7290
XS1030	270	1	1.8	<10	42.6	10500
XS1031	290	1	1.9	<10	42.3	8990
XS1032	530	<1	3.1	<10	47.8	3670
XS1033	460	<1	1.9	<10	27.5	2580

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Sr	Ta	Tb	Te	Th	Ti
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	10	1	0.1	10	0.5	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1034	250	<1	1.6	<10	10.9	570
XS1035	620	3	0.9	<10	21.8	11500
XS1036	200	<1	0.4	<10	7.9	1280
XS1037	410	<1	4.4	<10	19.7	6140
XS1038	280	<1	1.4	<10	12.8	5740
XS1039	390	3	6.7	<10	35.1	7650
XS1040	340	<1	2.6	<10	6.6	70
XS1041	420	2	5.6	<10	33.9	8090
XS1042	260	<1	2.1	<10	16.8	6260
XS1043	220	2	4.6	<10	32.3	5820
XS1044	320	<1	3.2	<10	19.1	1530
XS1045	520	<1	1.6	<10	22.7	450
XS1046	430	<1	0.7	<10	6.7	230
XS1047	410	<1	1.1	<10	11.7	360
XS1048	1530	<1	0.4	<10	2.7	<10
XS1049	1080	<1	0.5	<10	5.9	<10
XS1050	2370	<1	2.3	<10	7.8	<10
XS1051	2340	<1	2.3	<10	7.3	<10
XS1052	2920	<1	2.5	<10	7.4	<10
XS1053	860	<1	0.9	<10	8.0	80
XS1054	2120	<1	2.2	<10	13.2	<10
XS1055	1800	<1	1.2	<10	7.2	<10
XS1056	1940	<1	1.7	<10	5.1	<10
XS1057	1700	<1	1.7	<10	7.0	<10
XS1058	1510	<1	1.5	<10	9.8	20
XS1059	1790	<1	2.6	<10	31.9	100
XS1060	290	<1	2.4	<10	10.3	90
XS1061	900	<1	3.0	<10	24.8	30
XS1062	1070	<1	1.7	<10	10.2	<10

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Sr	Ta	Tb	Te	Th	Ti
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	10	1	0.1	10	0.5	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1063	950	<1	1.5	<10	9.8	<10
XS1064	760	<1	1.8	<10	8.1	<10
XS1065	350	<1	4.2	<10	40.9	330
XS1066	1200	<1	5.3	<10	52.0	<10
XS1067	1280	<1	1.8	<10	13.8	<10
XS1068	1650	<1	1.7	<10	8.2	<10
XS1069	1820	<1	1.4	<10	6.7	<10
XS1070	1330	<1	1.2	<10	9.8	<10
XS1071	1630	<1	1.8	<10	36.1	60
*Rep XS1020	380	<1	2.6	<10	9.8	60
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10
*Rep XS1047	390	<1	1.6	<10	14.8	350
*Std MMISRM22	290	<1	1.0	<10	29.8	30
*Blk BLANK	<10	<1	<0.1	<10	0.7	<10

Element	Tl	U	V	W	Y	Yb
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.1	0.5	1	0.5	1	0.2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1001	0.1	6.9	13	<0.5	5	0.4
XS1002	0.2	4.9	3	<0.5	<1	<0.2
XS1003	0.2	5.1	9	<0.5	1	<0.2
XS1004	0.5	3.2	222	2.1	10	1.1
XS1005	0.6	3.7	267	2.2	15	1.5
XS1006	0.1	2.3	8	<0.5	<1	<0.2
XS1007	0.3	0.7	1	0.7	5	1.4
XS1008	0.2	9.6	5	<0.5	31	5.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Tl	U	V	W	Y	Yb
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.1	0.5	1	0.5	1	0.2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1009	0.1	11.8	3	<0.5	62	14.4
XS1010	0.4	8.5	13	<0.5	38	3.6
XS1011	0.3	5.8	3	<0.5	31	5.6
XS1012	0.2	8.9	3	<0.5	39	7.5
XS1013	0.5	4.8	78	0.5	8	0.7
XS1014	0.4	2.9	168	<0.5	18	3.6
XS1015	0.2	7.9	30	<0.5	83	5.5
XS1016	0.1	2.3	11	0.6	40	7.6
XS1017	0.2	21.4	35	<0.5	12	1.3
XS1018	0.2	2.4	38	0.7	74	6.7
XS1019	<0.1	23.7	179	<0.5	22	5.3
XS1020	0.4	2.2	16	<0.5	77	4.8
XS1021	<0.1	1.1	3	<0.5	5	1.0
XS1022	0.2	2.0	710	8.3	167	14.6
XS1023	<0.1	2.3	12	<0.5	<1	<0.2
XS1024	0.1	2.9	12	0.9	<1	0.3
XS1025	0.4	7.6	41	<0.5	18	2.2
XS1026	0.2	4.9	82	<0.5	8	0.8
XS1027	0.3	12.2	97	1.1	37	4.1
XS1028	0.5	0.6	88	<0.5	5	1.7
XS1029	0.5	8.8	398	1.6	54	4.6
XS1030	0.6	7.4	859	2.6	49	4.7
XS1031	0.8	6.8	737	2.9	50	5.1
XS1032	0.5	11.1	138	2.6	67	5.9
XS1033	0.4	8.0	94	1.3	43	4.1
XS1034	0.2	7.6	145	0.7	41	3.5
XS1035	0.5	5.4	248	3.0	28	2.8
XS1036	0.4	2.3	156	<0.5	12	1.5
XS1037	0.5	10.3	249	1.6	97	6.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Tl	U	V	W	Y	Yb
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.1	0.5	1	0.5	1	0.2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1038	0.2	4.2	184	1.2	38	3.9
XS1039	0.4	9.4	265	2.4	174	11.5
XS1040	0.4	1.0	16	<0.5	93	4.6
XS1041	0.7	10.7	366	2.5	106	7.8
XS1042	0.2	5.0	233	1.1	65	5.5
XS1043	0.5	8.6	285	2.2	113	8.4
XS1044	0.2	4.4	456	1.4	79	6.3
XS1045	0.3	9.4	144	<0.5	48	3.9
XS1046	0.4	15.6	101	<0.5	39	3.1
XS1047	0.3	16.3	204	<0.5	43	4.0
XS1048	0.3	2.9	7	<0.5	17	2.9
XS1049	0.3	3.7	2	<0.5	20	4.1
XS1050	0.1	18.8	5	<0.5	76	9.9
XS1051	<0.1	14.5	5	<0.5	77	9.5
XS1052	0.1	23.0	7	<0.5	96	12.7
XS1053	0.3	394	41	<0.5	41	3.3
XS1054	0.1	32.2	16	<0.5	64	10.0
XS1055	<0.1	17.4	7	<0.5	41	4.8
XS1056	<0.1	16.6	5	<0.5	60	6.5
XS1057	<0.1	15.0	4	<0.5	54	5.9
XS1058	0.2	19.1	21	<0.5	46	5.6
XS1059	0.7	28.3	57	<0.5	78	13.0
XS1060	0.4	2.1	19	<0.5	67	4.0
XS1061	0.3	75.7	42	<0.5	84	7.4
XS1062	<0.1	3.5	11	<0.5	54	7.0
XS1063	0.3	4.0	19	<0.5	48	5.4
XS1064	0.2	6.4	14	<0.5	57	5.4
XS1065	0.4	21.2	64	<0.5	114	8.9
XS1066	0.2	55.3	4	<0.5	149	19.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Tl	U	V	W	Y	Yb
Method	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME	GE_MMIME
Lower Limit	0.1	0.5	1	0.5	1	0.2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
XS1067	0.3	5.8	14	<0.5	61	6.4
XS1068	0.2	25.6	6	<0.5	54	5.6
XS1069	<0.1	17.8	8	<0.5	40	4.9
XS1070	<0.1	11.8	29	<0.5	38	5.8
XS1071	0.5	9.3	41	0.6	56	9.0
*Rep XS1020	0.3	1.8	14	<0.5	86	5.2
*Blk BLANK	<0.1	<0.5	<1	<0.5	<1	<0.2
*Rep XS1047	0.2	15.0	196	<0.5	52	4.3
*Std MMISRM22	0.1	13.9	119	0.6	25	1.3
*Blk BLANK	<0.1	<0.5	<1	<0.5	<1	<0.2

Element	Zn	Zr
Method	GE_MMIME	GE_MMIME
Lower Limit	10	2
Upper Limit	--	--
Unit	ppb	ppb
XS1001	1600	11
XS1002	1760	<2
XS1003	3120	7
XS1004	880	75
XS1005	870	93
XS1006	470	8
XS1007	20	8
XS1008	100	19
XS1009	310	27
XS1010	180	16
XS1011	240	12
XS1012	40	23

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Zn	Zr
Method	GE_MMIME	GE_MMIME
Lower Limit	10	2
Upper Limit	--	--
Unit	ppb	ppb
XS1013	390	22
XS1014	20	17
XS1015	120	35
XS1016	190	51
XS1017	190	24
XS1018	50	194
XS1019	170	26
XS1020	60	22
XS1021	80	19
XS1022	30	515
XS1023	390	14
XS1024	150	17
XS1025	70	38
XS1026	140	9
XS1027	260	59
XS1028	60	6
XS1029	400	55
XS1030	1490	127
XS1031	1750	125
XS1032	90	106
XS1033	240	63
XS1034	490	18
XS1035	330	105
XS1036	510	24
XS1037	80	63
XS1038	270	54
XS1039	160	117
XS1040	90	17
XS1041	180	112

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration
Services - Andrew Tims / Xander Resources - Deepak Varshney
Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples
Number of Samples 71

ANALYSIS REPORT BBM21-14740

Element	Zn	Zr
Method	GE_MMIME	GE_MMIME
Lower Limit	10	2
Upper Limit	--	--
Unit	ppb	ppb
XS1042	400	59
XS1043	210	82
XS1044	210	45
XS1045	190	55
XS1046	810	31
XS1047	350	41
XS1048	190	5
XS1049	250	7
XS1050	340	7
XS1051	220	9
XS1052	190	9
XS1053	430	16
XS1054	130	13
XS1055	290	8
XS1056	240	7
XS1057	250	7
XS1058	170	16
XS1059	100	39
XS1060	130	18
XS1061	200	16
XS1062	230	8
XS1063	220	11
XS1064	80	9
XS1065	310	55
XS1066	410	39
XS1067	580	13
XS1068	260	9
XS1069	330	7
XS1070	120	9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com

Project Northern Mineral Exploration

ANALYSIS REPORT BBM21-14740

Services - Andrew Tims / Xander Resources - Deepak Varshney

Submission Number *BBY* Xander Resources / Timmins-Nickel / 71 Samples

Number of Samples 71

Element	Zn	Zr
Method	GE_MMIME	GE_MMIME
Lower Limit	10	2
Upper Limit	--	--
Unit	ppb	ppb
XS1071	250	36
*Rep XS1020	70	19
*Blk BLANK	<10	<2
*Rep XS1047	340	45
*Std MMISRM22	1730	29
*Blk BLANK	<10	<2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

SGS Canada Inc. | NAM Minerals Geochemistry 3260 Production Way Burnaby BC. V5A 4W4 CANADA t +1 (604) 638 2349 f +1 (604) 444 5486 www.sgs.com