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Prospecting Report
on the
Terra Nova Project
Atikokan, ON

Kenora Mining Division
UTM NAD83 15U 606203E 5406787N

Work conducted from
June 27 2021 to September 21 2021

Prepared by:
Troy Gallik P. Geo
Thunder Bay, Ontario
&
Stephen Brookings P.Geo
Atikokan, Ontario
Report Completed: March 3 2023

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1.0 EXECUTIVE SUMMARY

This report was prepared to summarize exploration work performed by Troy Gallik and Stephen Brookings on the Terra Nova property during the years of 2021-2022. Expenditures of **$26,780** are being submitted for assessment credit, incurred for approximately 10 field days. All work was supervised by Troy Gallik (P. Geo).

2.0 INTRODUCTION

The report summarizes exploration work performed by Troy Gallik and Stephen Brookings on the Terra Nova property during the years of 2021-2022. All expenditures are out off pocket of Troy Gallik and Stephen Brookings for a total of **$26,780** being submitted for assessment credit. These expenditures incurred for approximately 10 days of prospecting and lithogeochemical sampling of outcrops and boulders between the dates of June to September 2021 The claims were accessed by truck and the work was conducted by foot. A total of 20 lithogeochemical samples were collected within four claims cells (Table 1). These samples consist of tonalite, sericite altered tonalite, gabbro, and quartz veins. Thus far one sample hosted within a frost-heaved quartz vein returned 1.7g/ton Au. This new discovery suggests the potential for gold mineralization similar to the Hammond Reef deposit and warrants significant follow-up prospecting.

Table 1: Total expenses allocated

Claims	**Samples Taken**	**Percentage of Samples**	**Expenses Allocated**
670310	9	45%	$ 12,051
670309	11	55%	$ 14,729

3.0 LOCATION, ACCESS, AND PHYSIOGRAPHY

The Terra Nova Property is located approximately 210 kilometres west of Thunder Bay. The property is accessed via the Trans-Canada Highway 11 from Thunder Bay to the town of Atikokan; from there, it may be reached via a secondary highway with several logging roads providing access within the property itself. A major railway line and an electrical grid are located just a few kilometres south of the property. These infrastructures serve the community of Atikokan and the surrounding areas. Both skilled and semi-skilled labour is readily available from Thunder Bay and Atikokan, respectively. The economy of Atikokan is based on forestry, a thermal generating station, government services, retail services, tourism, and a mixture of light manufacturing businesses.

The claims are located in lightly to moderately forested terrain, with common swamps and boggy areas. The topography can be described as moderately hilly with about 50 m of elevation change.

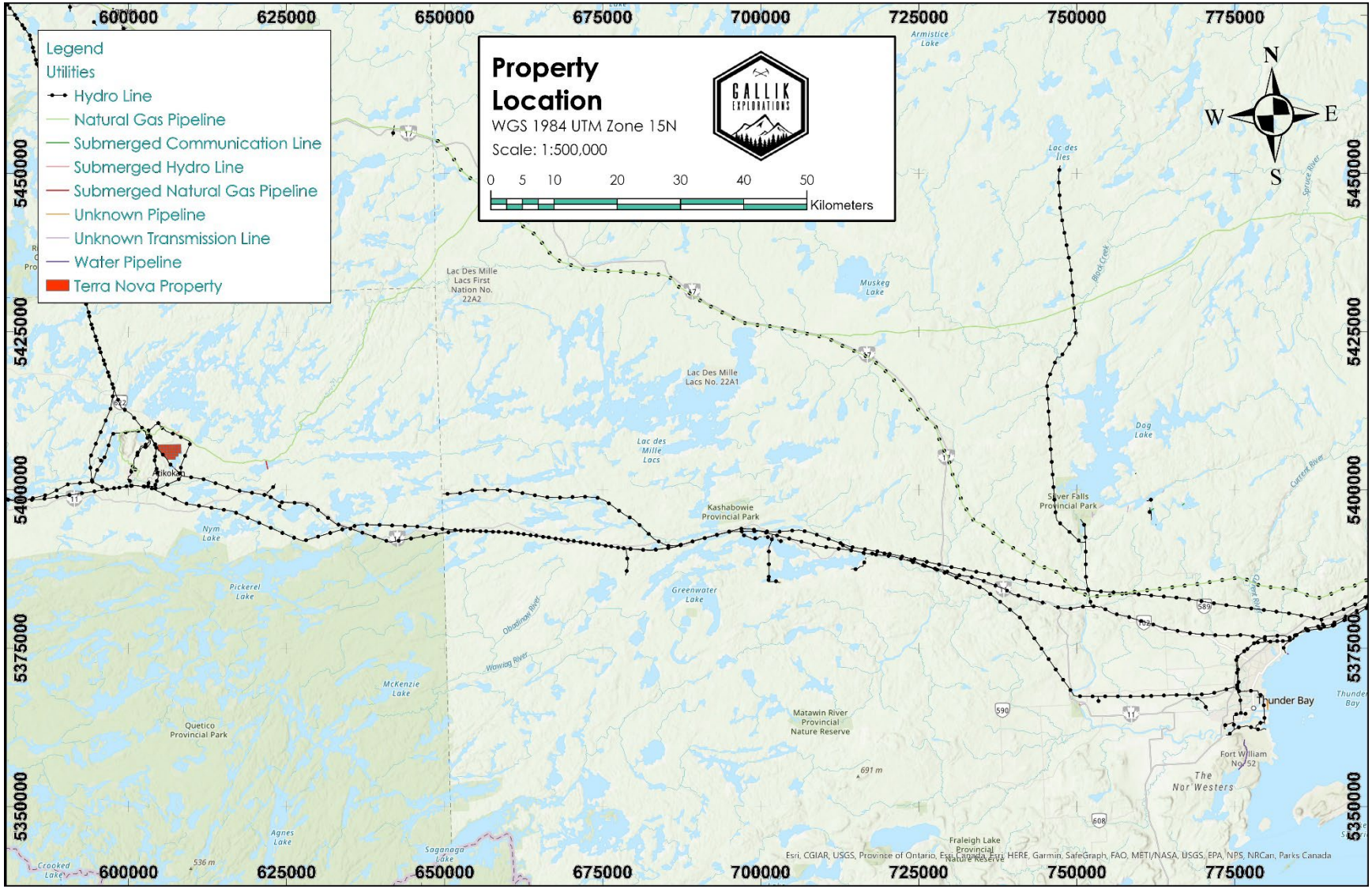

Figure 1: Terra Nova Project Location. Red circles highlight local towns and property location.

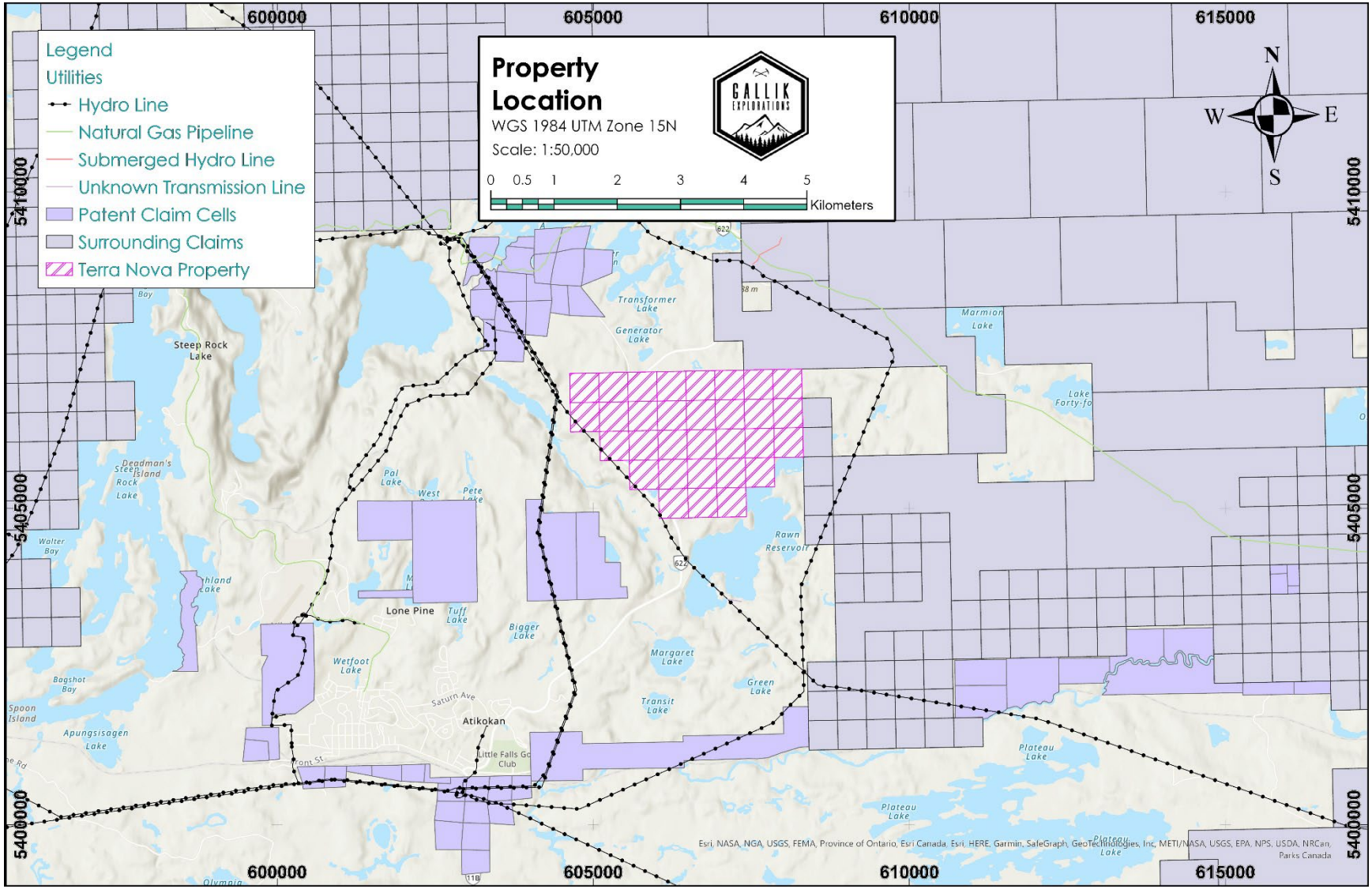

Figure 2:Terra Nova Project Location Map with claim cells located in the Schwenger township

4.0 CLAIMS AND OWNERSHIP

In August 2020, Troy Gallik and Stephen Brooking staked 31 single cell known as the Terra Nova Property, located in the Kenora Mining district. The total property is comprised of 31 single cell mining claims and 1 multiple cell mining claim for a total area of ~620 hectares (Figure 3). For a complete list of the mining claims see Table 2 below.

Table 2:Mining claims included in the Terra Nova Property.

Claim Number	Registration Date	Anniversary Date	Due Date	Tenure Status	Mining Claim Type	Holder
670288	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670291	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670311	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670297	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670286	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670302	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670303	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670310	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670299	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670306	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670313	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670304	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670292	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670308	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670293	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670294	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking

670295	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670296	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670305	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670300	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670307	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670287	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670298	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670309	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670312	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670289	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670315	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670314	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670285	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670290	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking
670301	2021-07-20	2023-07-20	2023-07-20	Active	Single Cell Mining Claim	(50) TROY ALBERT GALLIK, (50) Stephen Brooking

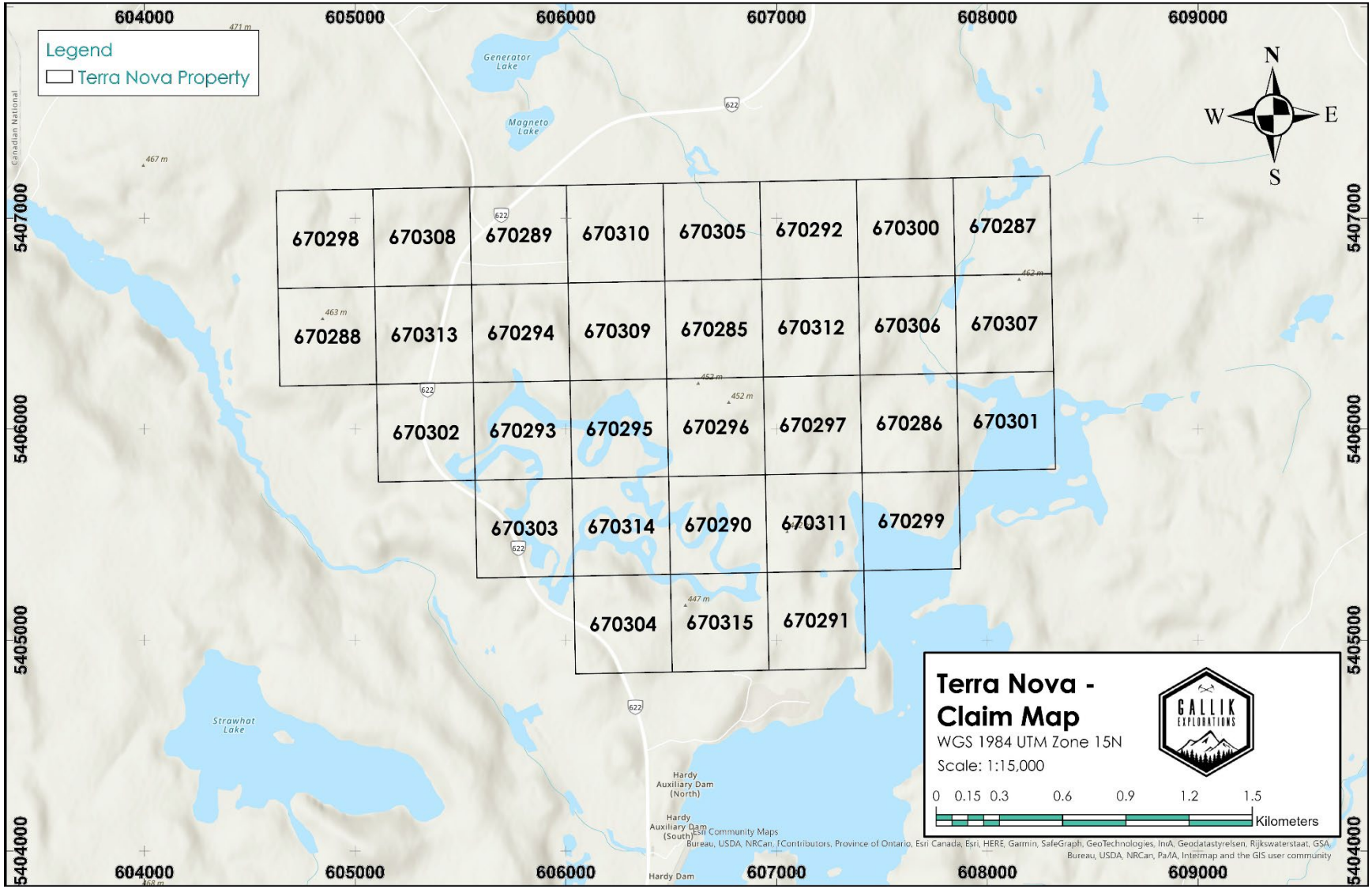

Figure 3 Terra Nova Property claim cells all in the Schwenger township

5.0 HISTORICAL EXPLORATION

In 2011, Fairmont Resources Inc. conducted a helicopter-borne electromagnetic and magnetic survey was flown by Fugro Airborne Surveys in July 2011 over a significant portion of the Marmion Lake Batholith which includes the Terra Nova Property. The survey was comprised of 1,348 line-kilometres of data acquired on a grid pattern of 75 m spaced traverses oriented north-south, controlled by 75 m spaced tie lines oriented east-west. The survey was completed without incident from a base of operations at Atikokan, approximately 210 kilometres by tarred road west of Thunder Bay.

The original objectives of this survey were two-fold:

- provide high resolution electromagnetic and magnetic data for the direct detection and delineation of sulphide-associated gold occurrences
- facilitate the mapping of bedrock lithologies and structure which in turn influence the emplacement or hosting of economic mineralization.

These objectives have been or are being met via this interpretation; the data has enabled both the mapping and delineation of controlling structures, and identification of anomalous conductivity suggesting sulphide mineralization. 20 high-priority targets zones were presented as the basis for further investigation and ground follow-up. Two high-priority targets are located within the Terra Nova Property.

The Centre for Exploration Targeting (CET) based at the University of Western Australia has developed algorithms for Texture Analysis, Phase Analysis, and Structure Detection of potential field data sets. These are versatile algorithms useful for grid texture analysis, lineament detection, edge detection, and thresholding; this technology was utilized on the Marmion South Contact claim group. Gold mineralization is known to occur near major crustal breaks manifesting as large-scale shear zones, which act as conduits for mineralising fluids. Mineralization occurs in regions of structural complexity adjacent to the shear zones.

6.0 REGIONAL GEOLOGY

The Terra Nova Property is situated on the southern margin of the Marmion terrane within the central Wabigoon Subprovince. The Marmion terrane represents a block of old crustal material made up of a basement complex (Marmion batholith, ~ 3.0 Ga) mantled by younger greenstone sequences. The southern margin of the Marmion terrane comprises tonalitic to granitic rocks of the Marmion batholith and metamorphosed volcanic, sedimentary, and plutonic rocks of the Lac des Mille Lacs greenstone belt, which extends from Atikokan east to Lac des Mille Lacs, where the belt subsequently tapers off to the northeast toward Legris Lake. To the south, the Marmion terrane is in fault contact with the metasedimentary rocks of the Quetico Subprovince (Stone 2004). These metasedimentary rocks of the Quetico Subprovince represent an accretionary prism that is interpreted to have been tectonically joined to the south margin of the Wabigoon Subprovince at 2.69 Ga (Percival and Williams 1989). The fault contact is the dominant feature in the regional geological setting, Located on the property. This boundary, a major east-trending structural zone that is characterized by intense and steeply dipping foliations and deformation, is referred to as the Quetico Fault. This fault zone is, in some places, up to 1 km or more in width (Purdon 1989). Dextral displacement along the Quetico Fault is estimated by various workers to be in the order of 120 km (Bau 1979; Williams 1991). M.A. Puumala et al.

Stone (2010b) describes 3 main phases on the Marmion batholith as comprising: i) biotite tonalite, ii) tonalite gneiss and iii) hornblende tonalite suites. The biotite tonalite suite is the most common rock type while the hornblende tonalite suite occurs in irregular to oval and highly elongate forms along the west, north and a portion of the southeast margin of the Marmion batholith. The tonalite gneiss suite occurs on the northeast and southeast margins of the Marmion batholith. A summary of the 3 phases are described by Stone as follows (2010b):

• Biotite tonalite to granodiorite (2994 to 2688 Ma): white to grey, generally medium grained and variably massive to foliated and weakly gneissic; an average of 11% mafic minerals with accessory magnetite, titanite, ilmenite, and zircon, amphibole inclusions.

• Hornblende tonalite to granodiorite (3002 to 2721 Ma): compositionally this suite ranges from tonalite through to granodiorite to granite and may also include quartz diorite and quartz monzodiorite. The rock is typically coarse-grained grey to white rock (locally grades to pink) massive to weakly foliated and has distinct lensoid diorite inclusions. Mafic minerals include amphiboles and biotite and accessory magnetite, titanite, apatite, allanite, ilmenite and zircon.

• Tonalite gneiss (3009 to 2673 Ma): texturally and compositionally heterogenous, layers vary from leucocratic to mesocratic tonalite and granodiorite to diorite and amphibolite. Layers range from a few centimetres to a few metres and have a wide variety of textures including boudinage of competent layers, folding, and development of foliated to mylonitic zones.

Within the Marmion batholith, gold is associated with large-scale deformation zones and northeast-trending fault zones. These structures appear to be secondary splay faults off the main Quetico Fault zone (Poulsen 2000). Pye and Fenwick (1965) produced a map identifying a set of parallel northeast-trending splays off the Quetico Fault (Figure 19). These major northeast-trending regional lineaments extend for approximately 20 km from Sapawe Lake through the Minto Mine, Minto North, Melema Lake, and North Melema gold occurrences (Wilkinson 1982)

7.0 PROPERTY GEOLOGY

The property is underlain by granitic rocks of the Marmion batholithic complex which hosts some of the gold deposits on the adjacent Hammond Reef property. Volcanic and gabbroic rocks dominating the southern half of the property are bound by a major crustal break, the Quetico Fault, and its subsidiary structures. Gold and copper mineralization in the volcanic and gabbroic rocks is structurally controlled by east–northeast to east–striking shear zones which are possibly related to the Quetico Fault system. Gold mineralization on the property is associated with pyrite +/- arsenopyrite and occurs within shear zone-hosted quartz veins/stringers and altered host rocks.

A 1980 OGS open file report discusses the gold occurrences in the Atikokan area and defines three types of gold mineralization as being present:

• Marmion Lake Batholith Type – occurs in the gneissic massif core of the batholith associated with NE trending regional lineaments and late trondhjemites which are locally sheared. Shearing strikes parallel to the lineaments and occurred during, at least, two episodes, the latest of which is related to the mineralization.

• Contact Zone Type – is contained by the plutonic rocks which border the gneisses batholiths along the meta-volcanic belt contact. Thin, discontinuous shear zones host the mineralization which is related to at least two episodes of shearing.

• Metavolcanic-hosted, Stratabound Type – is associated with laterally extensive beds of altered felsic tuffs and pyrite-bearing chemical sediments. The mineralization is due to epigenetic enrichment of gold associated with, in one instance, the intrusion of quartz-feldspar porphyry and, in the other, faulting and shearing.

Gold, in all three types of mineralization, is concentrated in quartz and quartz-carbonate veins with subsidiary Ag, Cu, Pb, and Zn. The process of gold enrichment into the veins is multi-stage and involved.

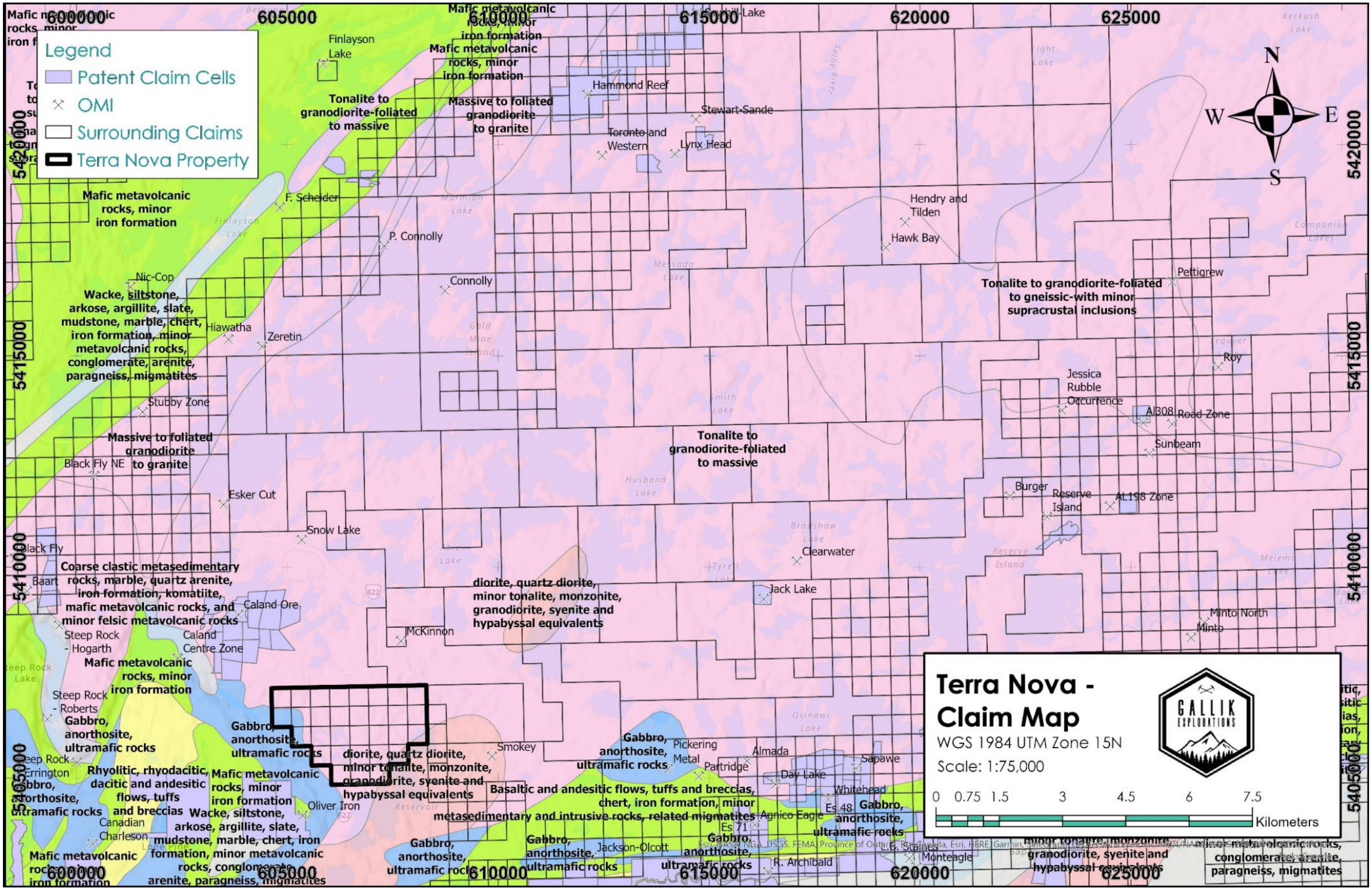

Figure 4: Generalized geology of the Atikokan area with the locations of historical showing and claims.

8.0 EXPLORATION WORK PERFORMED

The current work reports grass-roots prospecting that included 20 samples being collected beginning June 27, 2021 and concluding on September 23, 2021. Samples were collected from various lithologies that showed signs of hydrothermal alteration and sulphide mineralization. Locations were recorded with a handheld GPS and marked in the field with flagging tape and, sometimes, a sample tag with corresponding sample number. Samples were then placed in plastic bags and sealed with either flagging tape or zip-ties and dropped off at ActLabs facility in Thunder Bay by Troy Gallik. All samples were analyzed for gold and/or 36 major elements using ICP. A complete table of the returned results is included in Appendix B.

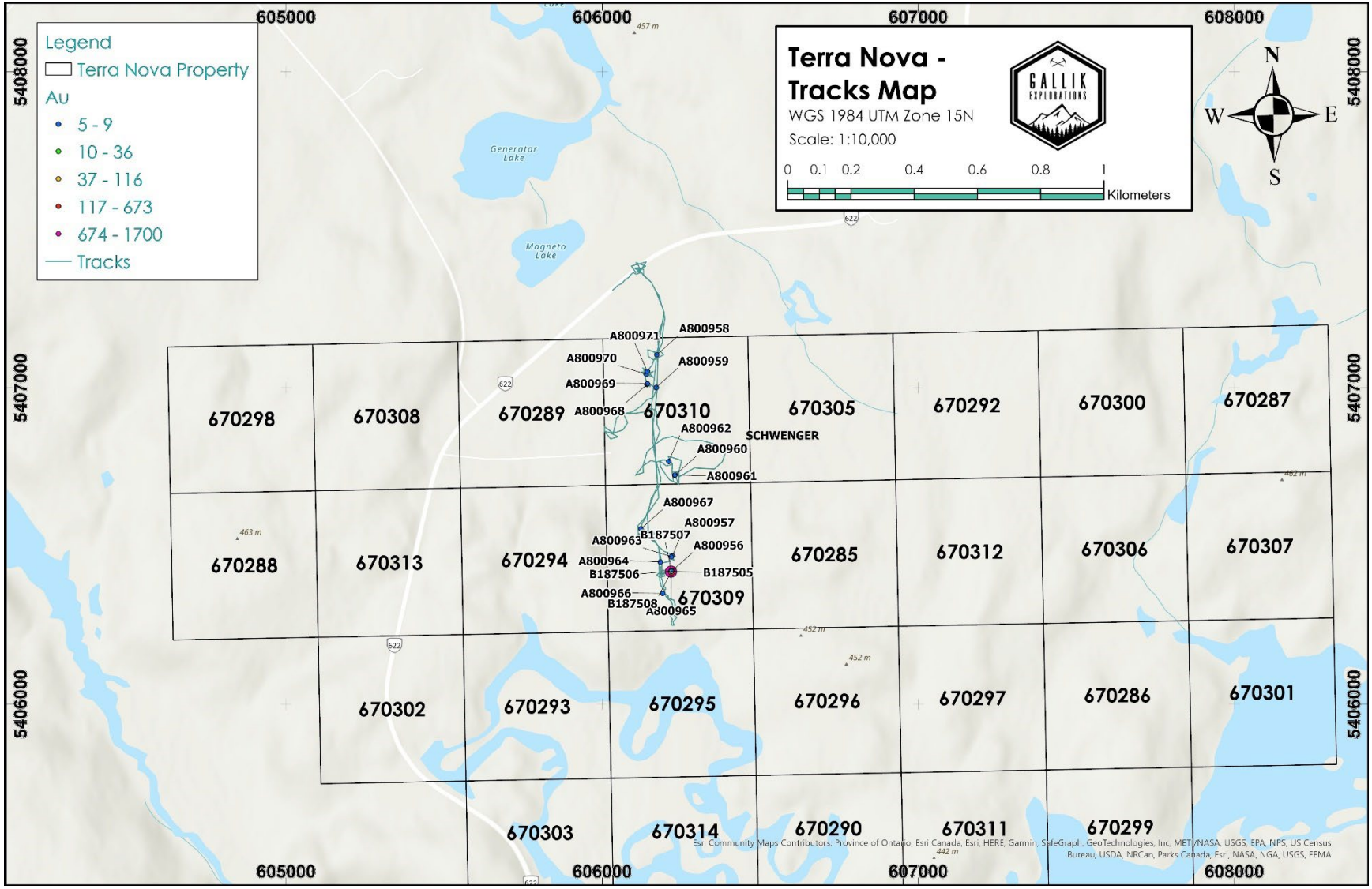

Figure 5: Tracks of Stephen Brookings and Troy Gallik (tracks were recorded in one string representing multiple days of work)

9.0 RESULTS

During the field program, Stephen Brooking and Troy Gallik identified a large, ~0.5 to 2m in width, white, pyrite bearing quartz vein within a mafic unit. This quartz vein was dug up with shovels and geotuls to determine its size and trend. Multiple samples were taken to test for Au values. Assays returned as elevated with grades up to 1.7 g/t Au.

Multiple samples were taken across the northern portion of the Terra Nova property for the purposes of testing the Au values however only samples from the quartz vein were elevated.

Table 3: Prospecting Results; all located with the Schwenger township

Sample	Easting	Northing	Elevation	Au (ppb)	Description
A800956	606218	5406419	432	36	Large white quartz vein blow out hosted in felsic intrusive unit. Barren of sulphides
A800957	606222	5406470	440	5	Light grey-white, local rusty pitted out spots, possible trace pyrite mineralization, frost heaved up from mafic volcanic host rock
A800958	606173	5407105	438	5	Angular float, near mafic-felsic contact, Outcrop is 20m x5m. Felsic, cg, quartz-feldspar, with white qtz veinlet, moderate sericite altered, trace pyrite
A800959	606171	5407002	433	5	Grey quartz vein in felsic intrusive host. Located in eroded area of outcrop. 20cm think
A800960	606230	5406724	433	5	White-grey, 20-30cm, within felsic host
A800961	606231	5406725	433	5	White-grey, mg-cg, quartz-feldspar, moderate sericite alt, with thin 5cm white-grey quartz vein
A800962	606211	5406768	428	5	White-grey, mg, strongly silica and weak sericite altered, trace pyrite
A800963	606219	5406467	428	5	White-grey, mg, mod ser and sil alt, local trace py, host rock of A800956
A800964	606184	5406450	427	5	white-grey, mg-cg, strongly sericite and silica altered, trace py, pitted out rust, folded trending NE-SW
A800965	606218	5406419	431	1700	Same quartz vein as A800957. hosted in mafic unit, local red garnet, silver sulphides (pyrite?), local chl within quartz vein
A800966	606192	5406351	433	5	Red-white, mod hematite altered, float on ridge (local), 1% pyrite
A800967	606123	5406555	419	5	30cm wide, white, continuous for 10 metres in OC, between mafic dyke and felsic intrusive contact, locally vuggy, trace pyrite

A800968	606142	5407011	429	5	white-grey, sheared up felsic host with thin attenuated qtz-stringers, trace pyrite, strong ser alt, proximal to larger qtz vein near NE trending swamp
A800969	606143	5407014	430	5	white-grey, 1 metre wide, barren of sulphides, local rusted out pits, possible specular hematite, near NE swamp
A800970	606139	5407044	431	5	20cm thick quartz vein located in mafic and felsic contact, 1% pyrite, locally rusty red
A800971	606143	5407053	429	5	Along trend of A800970. 20 cm thick quartz vein located in mafic and felsic contact, 1% pyrite, locally rusty red
B187505	606218	5406419	431	116	Same quartz vein as A800957. hosted in mafic unit, local red garnet, silver sulphides (pyrite?), local chl within quartz vein
B187506	606218	5406419	431	31	Same quartz vein as A800957. hosted in mafic unit, local red garnet, silver sulphides (pyrite?), local chl within quartz vein
B187507	606218	5406419	431	673	Same quartz vein as A800957. hosted in mafic unit, local red garnet, silver sulphides (pyrite?), local chl within quartz vein
B187508	606218	5406419	431	9	Same quartz vein as A800957. hosted in mafic unit, local red garnet, silver sulphides (pyrite?), local chl within quartz vein

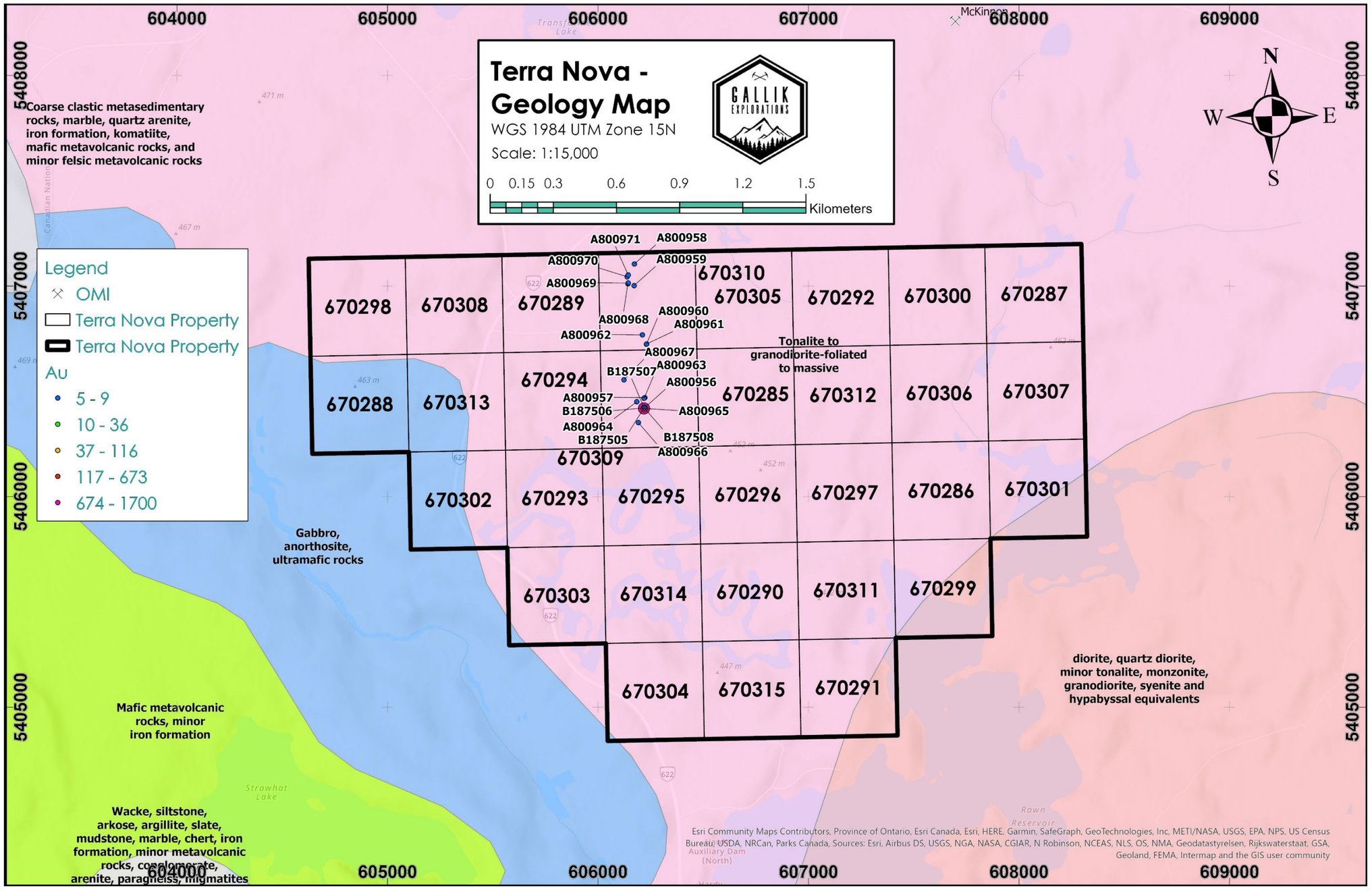

Figure 6: Plan map of 2021 prospecting sample locations and Au values

10.0 CONCLUSIONS AND RECOMMENDATIONS

With elevated gold assayed in a very preliminary pass, this property is deemed fit for significant follow up prospecting and other grass roots techniques.

The Hammond Reef property is a multimillion-ounce deposit however the average grade for the open pit is only 0.84 g/ton. This will likely be an issue for developing the property unless there is a significant increase in gold's value. It is likely a higher Au grade satellite deposit, proximal to the Hammond Reef Property would be appealing to Agnico Gold.

Appendix A: Daily Work Logs – Prospecting

Date	Personnel	Description
2021-06-27	Stephen Brooking	Sampled quartz vein with sulphides
2021-07-13	Troy Gallik	Drive to Atikokan from Thunder Bay
2021-07-14 to 2021-07-17	Troy and Stephen	4 Days of prospecting with 14 grab samples taken. Dig out quartz vein outcrop.
2021-07-18	Troy Gallik	Drive to Thunder Bay from Atikokan
2021-09-21	Stephen Brooking	Dug out and sampled the quartz vein with elevated Au. 4 samples taken
2021-12-20	Stephen Brooking	Drive to Thunder Bay from Atikokan to drop off samples
2021-12-21	Stephen Brooking	Drive to Atikokan from Thunder Bay

Appendix B: Assay Certificates

Quality Analysis ... *Innovative Technologies*

Report No.: **A21-12148**
Report Date: **18-Aug-21**
Date Submitted: **29-Jun-21**
Your Reference: **Wabash Lake Property**

Troy Gallik

ATTN: Troy Gallik

CERTIFICATE OF ANALYSIS

5 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2B-30-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-07-07 12:56:14
1F2-Tbay	QOP Total (Total Digestion ICPOES)	2021-08-16 23:04:31
Weight Report in Kg-Tbay	Received Weights-Tbay	2021-07-02 14:52:50

REPORT **A21-12148**

Notes:

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

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

SCC Accredited LAB LAB Accrédité CCN TM

LabID: 673

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
A800951	< 5	0.4	7.48	3	482	1	< 2	0.73	< 0.3	4	11	7	2.07	17	2.23	0.35	27	445	< 1	3.05	4	0.034	4
A800952	< 5	< 0.3	7.17	< 3	403	1	< 2	1.56	< 0.3	3	14	7	1.50	17	2.24	0.24	24	356	< 1	2.76	3	0.022	6
A800953	< 5	< 0.3	7.01	< 3	81	< 1	< 2	5.86	0.6	47	138	111	9.30	15	0.39	4.43	53	1710	< 1	1.68	94	0.027	< 3
A800954	< 5	< 0.3	6.23	< 3	43	< 1	17	5.95	0.4	37	103	63	8.62	16	0.32	3.74	26	1360	< 1	1.22	67	0.018	4
A800955	< 5	0.3	8.62	< 3	238	1	< 2	3.66	0.3	16	53	99	6.25	19	1.37	2.90	62	1010	34	2.64	49	0.064	< 3

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Received Weight
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Kg
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	none
A800951	< 5	< 0.01	5	105	5	0.15	< 5	< 10	25	< 5	17	64	138	0.558
A800952	< 5	< 0.01	< 4	110	< 2	0.11	< 5	< 10	16	< 5	18	48	116	0.828
A800953	< 5	0.03	38	87	5	0.47	< 5	< 10	262	< 5	17	93	23	0.720
A800954	< 5	0.01	35	86	6	0.23	< 5	< 10	186	< 5	15	84	23	0.428
A800955	< 5	1.10	15	180	5	0.36	< 5	< 10	102	< 5	12	116	64	0.550

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas				< 3						140	200	299	9.05								5930		
Oreas 72a (4 Acid) Cert				14.7						157	228	316	9.63								6930.000		
Oreas 72a (4 Acid) Meas				< 3						163	175	356	10.1								6910		
Oreas 72a (4 Acid) Cert				14.7						157	228	316	9.63								6930.000		
OREAS 98 (4 Acid) Meas		43.6					66			122		> 10000											317
OREAS 98 (4 Acid) Cert		45.1					97.2			121		148000.0											345
OREAS 98 (4 Acid) Meas		44.9					45			125		> 10000											323
OREAS 98 (4 Acid) Cert		45.1					97.2			121		148000.0											345
OREAS 904 (4 Acid) Meas		0.5	6.51	82	203	10	3	0.05		93	53	6080	6.68	16	2.70	0.58	17	473	4	0.04	40	0.095	4
OREAS 904 (4 Acid) Cert		0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6
SBC-1 Meas				19	825	3	< 2		0.8	22	79	29		26			160		2		86		36
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0			163		2		83		35.0
OREAS 96 (4 Acid) Meas		11.6					35			50		> 10000											96
OREAS 96 (4 Acid) Cert		11.5					26.3			49.9		39300											101
OREAS 96 (4 Acid) Meas		11.9					5			52		> 10000											96
OREAS 96 (4 Acid) Cert		11.5					26.3			49.9		39300											101
OREAS 923 (4 Acid) Meas		1.9	7.46	5	466	3	12	0.50	0.7	24	80	4410	6.53	19	2.61	1.78	32	992	< 1	0.32	38	0.065	86
OREAS 923 (4 Acid) Cert		1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3	2.51	1.69	31.4	950	0.930	0.324	35.8	0.0630	83.0
OREAS 621 (4 Acid) Meas		71.9	6.31	63		2	2	2.12	294	31	35	3730	3.74	24	1.70	0.53	15	532	13	1.34	29	0.036	> 5000
OREAS 621 (4 Acid) Cert		69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas		71.8	6.57	65		2	4	2.13	293	30	36	3690	3.73	27	0.90	0.53	15	529	13	1.34	27	0.038	> 5000
OREAS 621 (4 Acid) Cert		69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	26.2	0.0359	13600
OREAS 228b (Fire Assay) Meas	8560																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	520																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		< 0.3	7.88		435	1	< 2	5.86		49	1680	261	7.49	17	1.42	5.14	13	1290	< 1	1.60	463	0.130	6
OREAS 681 (4 Acid) Cert		0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61	503	0.141	10.2
OREAS 247 (4 Acid) Meas		2.2	6.27	2940	582	3	< 2	0.90	< 0.3	13	98	43	3.35	17	2.37	1.27	32	375	< 1	0.47	47	0.045	32
OREAS 247 (4 Acid) Cert		2.16	6.08	3510	550	2.23	0.580	0.826	0.0650	12.0	97.0	42.2	3.32	16.3	2.45	1.22	31.8	360	1.76	0.499	45.9	0.0480	31.9

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 5																						
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	7	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	7	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	3	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas		1.61											
Oreas 72a (4 Acid) Cert		1.74											
Oreas 72a (4 Acid) Meas		1.84											
Oreas 72a (4 Acid) Cert		1.74											
OREAS 98 (4 Acid) Meas	< 5	16.0										1320	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	< 5	16.3										1370	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 904 (4 Acid) Meas	< 5	0.06	11	30			< 5	< 10	85	< 5	35	27	68
OREAS 904 (4 Acid) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas	< 5		19	187		0.52	< 5	< 10	218	< 5	31	192	115
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
OREAS 96 (4 Acid) Meas	< 5	4.38										455	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.46										468	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	< 5	0.71	13	47		0.43	< 5	< 10	95	8	27	364	130
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 621 (4 Acid) Meas	13	4.58	5	73		0.20	< 5	< 10	35	< 5	12	> 10000	170
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	12	4.59	6	81		0.20	< 5	< 10	35	< 5	13	> 10000	175
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 228b (Fire Assay) Meas													
OREAS 228b (Fire Assay) Cert													
Oreas E1336 (Fire Assay) Meas													
Oreas E1336 (Fire Assay) Cert													
OREAS 681 (4 Acid) Meas	< 5	0.10	26	459		0.42		< 10	200	< 5	17	81	49
OREAS 681 (4 Acid) Cert	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0
OREAS 247 (4 Acid) Meas	268	0.70	12	101		0.36	< 5	< 10	69	< 5	18	87	125
OREAS 247 (4 Acid) Cert	3300	0.714	11.4	96.0		0.390	0.800	2.53	82.0	7.88	13.1	86.0	125

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank													
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5

Quality Analysis ... *Innovative Technologies*

Report No.: **A21-14981**
Report Date: **09-Sep-21**
Date Submitted: **10-Aug-21**
Your Reference: **Terra Nova**

Troy Gallik

ATTN: Troy Gallik

CERTIFICATE OF ANALYSIS

14 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2B-30-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-08-20 21:48:29
1F2-Tbay	QOP Total (Total Digestion ICPOES)	2021-09-02 16:10:22
Weight Report in Kg-Tbay	Received Weights-Tbay	2021-08-21 11:08:59

REPORT **A21-14981**

Notes:

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

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

SCC Accredited LAB LAB Accrédité CCN TM

LabID: 673

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
A800958	< 5	0.3	7.52	< 3	577	1	< 2	0.33	< 0.3	3	14	6	1.68	19	2.08	0.60	21	257	< 1	2.70	3	0.028	< 3
A800959	5	< 0.3	5.45	< 3	384	< 1	< 2	0.22	< 0.3	2	22	2	0.96	11	1.61	0.22	5	129	2	1.89	6	0.018	< 3
A800960	< 5	< 0.3	6.96	< 3	152	1	< 2	0.70	< 0.3	< 1	9	9	0.46	19	0.56	0.05	2	179	< 1	4.88	< 1	0.010	14
A800961	< 5	< 0.3	7.08	< 3	464	< 1	< 2	0.35	< 0.3	1	21	6	0.89	15	1.50	0.25	5	269	2	2.99	3	0.008	3
A800962	< 5	< 0.3	8.65	< 3	470	< 1	< 2	1.58	< 0.3	4	16	14	1.31	21	2.06	0.26	8	274	1	3.16	3	0.030	< 3
A800963	< 5	< 0.3	9.08	< 3	566	4	< 2	0.49	< 0.3	< 1	10	4	0.59	29	1.23	0.17	4	152	15	4.80	2	0.007	< 3
A800964	< 5	< 0.3	4.83	< 3	776	< 1	< 2	0.35	< 0.3	2	14	8	1.12	14	1.50	0.32	8	252	< 1	3.23	3	0.025	6
A800965	1700	0.4	1.09	< 3	90	< 1	< 2	0.74	< 0.3	4	72	8	1.12	3	0.54	0.22	5	323	3	0.02	17	0.003	< 3
A800966	< 5	< 0.3	7.95	< 3	462	< 1	< 2	1.14	< 0.3	6	14	9	2.37	19	1.51	0.27	14	413	< 1	3.02	4	0.050	7
A800967	< 5	< 0.3	2.34	< 3	292	< 1	< 2	0.62	< 0.3	9	67	8	2.28	6	0.62	1.31	22	538	2	0.07	21	0.010	< 3
A800968	< 5	< 0.3	10.5	< 3	> 1000	2	< 2	0.52	< 0.3	21	429	3	6.17	38	3.13	2.85	65	933	< 1	0.69	189	0.114	13
A800969	< 5	< 0.3	2.43	< 3	294	< 1	< 2	0.03	< 0.3	< 1	27	2	0.67	8	1.28	0.23	7	87	2	0.07	4	0.004	< 3
A800970	< 5	< 0.3	1.63	< 3	126	< 1	5	0.54	< 0.3	3	34	17	1.10	8	0.36	0.29	8	228	< 1	0.36	10	0.006	6
A800971	< 5	< 0.3	2.38	< 3	217	< 1	< 2	1.19	< 0.3	15	111	37	2.74	7	0.63	1.26	27	530	6	0.06	43	0.008	12

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Received Weight
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Kg
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	none
A800958	< 5	0.01	< 4	84	3	0.21	< 5	< 10	32	< 5	6	41	129	0.584
A800959	< 5	< 0.01	< 4	108	< 2	0.08	< 5	< 10	12	< 5	4	18	46	0.320
A800960	< 5	0.04	< 4	124	< 2	0.01	< 5	< 10	3	< 5	8	50	58	0.430
A800961	< 5	< 0.01	< 4	182	< 2	0.07	< 5	< 10	17	< 5	3	40	41	0.430
A800962	< 5	0.09	< 4	213	< 2	0.15	< 5	< 10	24	< 5	3	45	111	0.378
A800963	< 5	< 0.01	< 4	383	< 2	0.05	< 5	< 10	7	< 5	7	19	112	0.310
A800964	< 5	< 0.01	< 4	137	< 2	0.14	< 5	< 10	10	< 5	1	51	117	0.376
A800965	< 5	0.13	4	8	< 2	0.06	< 5	< 10	25	< 5	5	16	< 5	0.584
A800966	< 5	0.06	8	262	< 2	0.25	< 5	< 10	40	< 5	4	54	120	0.554
A800967	< 5	0.03	9	111	< 2	0.09	< 5	< 10	36	< 5	2	82	12	0.482
A800968	< 5	< 0.01	16	22	< 2	0.16	6	< 10	62	< 5	18	182	60	0.322
A800969	< 5	< 0.01	< 4	5	< 2	< 0.01	< 5	< 10	25	< 5	< 1	13	5	0.536
A800970	< 5	0.02	< 4	54	4	0.05	< 5	< 10	66	< 5	1	18	7	0.432
A800971	< 5	0.06	8	17	< 2	0.13	< 5	< 10	72	< 5	4	47	13	0.424

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas				< 3						147	179	302	9.12								6350		
Oreas 72a (4 Acid) Cert				14.7						157	228	316	9.63								6930.000		
Oreas 72a (4 Acid) Meas				< 3						146	212	307	9.39								6410		
Oreas 72a (4 Acid) Cert				14.7						157	228	316	9.63								6930.000		
Oreas 72a (4 Acid) Meas				< 3						150	185	332	9.61								6890		
Oreas 72a (4 Acid) Cert				14.7						157	228	316	9.63								6930.000		
OREAS 98 (4 Acid) Meas		43.8					137			123		> 10000											322
OREAS 98 (4 Acid) Cert		45.1					97.2			121		148000.0											345
OREAS 98 (4 Acid) Meas		41.9					103			117		> 10000											298
OREAS 98 (4 Acid) Cert		45.1					97.2			121		148000.0											345
OREAS 98 (4 Acid) Meas		44.3					52			120		> 10000											319
OREAS 98 (4 Acid) Cert		45.1					97.2			121		148000.0											345
OREAS 904 (4 Acid) Meas		0.6	6.59	93	212	10	3	0.05		95	55	6180	7.12	17	2.27	0.61	17	477	1	0.04	45	0.096	9
OREAS 904 (4 Acid) Cert		0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6
OREAS 904 (4 Acid) Meas		0.6	6.45	92	207	10	6	0.05		94	57	6090	6.91	17	2.65	0.59	16	453	2	0.04	45	0.095	10
OREAS 904 (4 Acid) Cert		0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6
OREAS 904 (4 Acid) Meas		0.4	6.75	87	189	10	< 2	0.05		93	60	6230	6.87	17	2.10	0.58	17	497	3	0.04	44	0.097	8
OREAS 904 (4 Acid) Cert		0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6
SBC-1 Meas				22	798	3	2		< 0.3	22	89	31		26			162		1		86		29
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0			163		2		83		35.0
SBC-1 Meas				22	783	3	3		0.4	23	90	30		26			160		1		85		31
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0			163		2		83		35.0
SBC-1 Meas				8	844	3	< 2		0.5	22	89	30		28			162		< 1		85		30
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0			163		2		83		35.0
OREAS 96 (4 Acid) Meas		11.8					27			51		> 10000											100
OREAS 96 (4 Acid) Cert		11.5					26.3			49.9		39300											101
OREAS 96 (4 Acid) Meas		11.3					45			49		> 10000											91
OREAS 96 (4 Acid) Cert		11.5					26.3			49.9		39300											101
OREAS 96 (4 Acid) Meas		11.8					23			51		> 10000											103
OREAS 96 (4 Acid) Cert		11.5					26.3			49.9		39300											101
OREAS 923 (4 Acid) Meas		2.1	7.39	3	441	3	21	0.49	0.5	24	73	4350	6.58	21	2.64	1.75	31	969	< 1	0.33	43	0.063	92
OREAS 923 (4 Acid) Cert		1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3	2.51	1.69	31.4	950	0.930	0.324	35.8	0.0630	83.0

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 923 (4 Acid) Meas		2.4	7.35	4	445	3	20	0.50	0.5	24	80	4390	6.62	19	2.46	1.77	31	996	< 1	0.33	42	0.066	91
OREAS 923 (4 Acid) Cert		1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3	2.51	1.69	31.4	950	0.930	0.324	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas		1.5	7.66	< 3	469	3	12	0.50	0.4	23	85	4430	6.69	21	2.53	1.79	32	1010	< 1	0.33	38	0.066	83
OREAS 923 (4 Acid) Cert		1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3	2.51	1.69	31.4	950	0.930	0.324	35.8	0.0630	83.0
OREAS 621 (4 Acid) Meas		72.5	6.48	69		2	4	2.07	289	30	36	3630	3.75	24	2.30	0.52	14	521	13	1.29	33	0.037	> 5000
OREAS 621 (4 Acid) Cert		69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas		68.6	6.72	56		2	< 2	2.05	293	28	34	3570	3.72	25	2.24	0.51	14	499	13	1.28	27	0.037	> 5000
OREAS 621 (4 Acid) Cert		69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas		72.5	6.83	59		2	< 2	2.12	305	32	33	3770	3.85	25	2.37	0.53	15	546	14	1.35	28	0.038	> 5000
OREAS 621 (4 Acid) Cert		69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	26.2	0.0359	13600
Oreas 237 (Fire Assay) Meas	2260																						
Oreas 237 (Fire Assay) Cert	2210																						
Oreas E1336 (Fire Assay) Meas	511																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		0.4	7.73		409	1	< 2	5.75		49	1450	262	7.51	16	1.38	5.05	13	1300	< 1	1.54	482	0.125	10
OREAS 681 (4 Acid) Cert		0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61	503	0.141	10.2
OREAS 681 (4 Acid) Meas		0.4	7.80		412	1	< 2	5.77		49	1750	261	7.43	16	1.39	5.09	13	1310	1	1.56	479	0.136	15
OREAS 681 (4 Acid) Cert		0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61	503	0.141	10.2
OREAS 681 (4 Acid) Meas		< 0.3	7.71		416	1	< 2	5.73		47	1580	254	7.38	18	1.37	4.95	13	1300	< 1	1.56	476	0.124	20
OREAS 681 (4 Acid) Cert		0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61	503	0.141	10.2
OREAS 247 (4 Acid) Meas		2.6	6.12	3040	544	3	< 2	0.87	< 0.3	16	97	45	3.28	16	2.31	1.24	31	378	< 1	0.46	48	0.044	31
OREAS 247 (4 Acid) Cert		2.16	6.08	3510	550	2.23	0.580	0.826	0.0650	12.0	97.0	42.2	3.32	16.3	2.45	1.22	31.8	360	1.76	0.499	45.9	0.0480	31.9
OREAS 247 (4 Acid) Meas		2.6	6.28	3050	548	3	< 2	0.90	< 0.3	18	96	42	3.38	15	2.09	1.28	32	398	< 1	0.48	50	0.041	33
OREAS 247 (4 Acid) Cert		2.16	6.08	3510	550	2.23	0.580	0.826	0.0650	12.0	97.0	42.2	3.32	16.3	2.45	1.22	31.8	360	1.76	0.499	45.9	0.0480	31.9
OREAS 247 (4 Acid) Meas		2.2	6.39	3160	568	2	< 2	0.87	< 0.3	12	95	41	3.31	16	2.34	1.23	31	384	< 1	0.46	48	0.044	33
OREAS 247 (4 Acid) Cert		2.16	6.08	3510	550	2.23	0.580	0.826	0.0650	12.0	97.0	42.2	3.32	16.3	2.45	1.22	31.8	360	1.76	0.499	45.9	0.0480	31.9
A800966 Orig		0.3	8.05	< 3	463	< 1	< 2	1.15	< 0.3	6	15	9	2.38	19	1.50	0.28	14	432	< 1	3.05	5	0.050	5
A800966 Dup		< 0.3	7.85	< 3	461	< 1	< 2	1.13	< 0.3	6	14	9	2.36	18	1.53	0.27	14	394	< 1	3.00	4	0.049	8
A800967 Orig	< 5																						
A800967 Dup	< 5																						
Method Blank	< 5																						
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	4	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	10	< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	7	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	6	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	6	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	9	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	5	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	10	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	8	< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	6	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	4	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	4	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas		1.62											
Oreas 72a (4 Acid) Cert		1.74											
Oreas 72a (4 Acid) Meas		1.64											
Oreas 72a (4 Acid) Cert		1.74											
Oreas 72a (4 Acid) Meas		1.73											
Oreas 72a (4 Acid) Cert		1.74											
OREAS 98 (4 Acid) Meas	6	15.8										1320	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	8	15.6										1310	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	9	16.4										1360	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 904 (4 Acid) Meas	< 5	0.06	12	32			< 5	< 10	89	< 5	35	28	42
OREAS 904 (4 Acid) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 Acid) Meas	< 5	0.06	11	31			< 5	< 10	89	< 5	35	27	47
OREAS 904 (4 Acid) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 Acid) Meas	< 5	0.06	12	29			< 5	< 10	90	< 5	35	27	51
OREAS 904 (4 Acid) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas	< 5		20	187		0.53	< 5	< 10	224	< 5	32	193	118
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		20	187		0.51	< 5	< 10	225	< 5	32	188	115
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		19	186		0.52	< 5	< 10	232	< 5	32	200	114
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
OREAS 96 (4 Acid) Meas	< 5	4.22										453	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.33										457	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.53										471	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	< 5	0.72	13	46		0.44	< 5	< 10	99	9	27	363	129
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 923 (4 Acid) Meas	< 5	0.72	13	47		0.44	< 5	< 10	101	6	27	371	131
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.73	13	46		0.45	< 5	< 10	104	7	27	373	131
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 621 (4 Acid) Meas	17	4.60	6	76		0.20	< 5	< 10	35	< 5	13	> 10000	170
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	21	4.52	7	76		0.19	< 5	< 10	36	< 5	13	> 10000	168
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	11	4.78	6	79		0.20	< 5	< 10	38	< 5	13	> 10000	173
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
Oreas 237 (Fire Assay) Meas													
Oreas 237 (Fire Assay) Cert													
Oreas E1336 (Fire Assay) Meas													
Oreas E1336 (Fire Assay) Cert													
OREAS 681 (4 Acid) Meas	< 5	0.10	26	448		0.39		< 10	200	< 5	16	83	45
OREAS 681 (4 Acid) Cert	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0
OREAS 681 (4 Acid) Meas	< 5	0.10	26	458		0.60		< 10	251	< 5	17	83	65
OREAS 681 (4 Acid) Cert	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0
OREAS 681 (4 Acid) Meas	< 5	0.10	25	444		0.43		< 10	219	< 5	16	79	50
OREAS 681 (4 Acid) Cert	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0
OREAS 247 (4 Acid) Meas	303	0.71	12	98		0.35	< 5	< 10	72	< 5	18	88	119
OREAS 247 (4 Acid) Cert	3300	0.714	11.4	96.0		0.390	0.800	2.53	82.0	7.88	13.1	86.0	125
OREAS 247 (4 Acid) Meas	297	0.69	12	103		0.34	< 5	< 10	75	< 5	19	90	126
OREAS 247 (4 Acid) Cert	3300	0.714	11.4	96.0		0.390	0.800	2.53	82.0	7.88	13.1	86.0	125
OREAS 247 (4 Acid) Meas	322	0.70	12	102		0.37	< 5	< 10	73	< 5	19	87	118
OREAS 247 (4 Acid) Cert	3300	0.714	11.4	96.0		0.390	0.800	2.53	82.0	7.88	13.1	86.0	125
A800966 Orig	< 5	0.06	8	266	3	0.27	< 5	< 10	41	< 5	4	54	122
A800966 Dup	< 5	0.06	7	258	< 2	0.24	< 5	< 10	39	< 5	4	54	118
A800967 Orig													
A800967 Dup													
Method Blank													
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	6	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5

Quality Analysis ... *Innovative Technologies*

Report No.: **A22-00648**
Report Date: **28-Jan-22**
Date Submitted: **21-Jan-22**
Your Reference: **Terra Nova**

Troy Gallik

ATTN: Troy Gallik

CERTIFICATE OF ANALYSIS

4 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2B-30-Tbay	QOP AA-Au (Au - Fire Assay AA)	2022-01-27 22:08:08

REPORT **A22-00648**

Notes:

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

SCC Accredited LAB Accrédité CCN TM

LabID: 673

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
B187505	116
B187506	31
B187507	673
B187508	9

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
Oreas E1336 (Fire Assay) Meas	516
Oreas E1336 (Fire Assay) Cert	510.000
OREAS 256b (Fire Assay) Meas	8040
OREAS 256b (Fire Assay) Cert	7840
B187505 Orig	97
B187505 Dup	135
Method Blank	< 5

Appendix C: Expenditure Table and Expenditures

Work Conducted	Daily Rate	Man Days	Total Expenses
Field Work	$ 350	10	$ 3,500.00
Travel	$ 350	4	$ 1,400.00
Data compilation and GIS work	$ 350	10	$ 3,500.00
Report Writing	$ 350	10	$ 3,500.00
		Total	**$ 11,900**

Assays Costs	Units	Total Costs
Assay Costs	20	**$ 890.00**

Misc	Total Costs
Equipment	N/A
Fuel	N/A
Food	N/A
Truck Usage	$ 600.00
Total	**$ 600.00**

Assays and Misc	**$ 1,490.00**
Work Conducted Costs	**$ 11,900**
Grand Total	**$ 13,390**