



ANNUAL REPORT

EL25031, 25033, 25034, 25035, 25041, 25042 and 25044

From
10 September 2021 to 19 December 2021

And
Final Report
From
20 December 2013 to 19 December 2021

BARROW CREEK PROJECT GR 162

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100,000 mapsheet	Lander 5356, Winal 5456, Jarrah 5556,

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DIGITAL APPENDICE

FILE	DESCRIPTION
EL25031, 25033, 25034, 25035, 25041, 25042, 25044_2021_A_F_01_SSsample	Surface sample data
EL25031, 25033, 25034, 25035, 25041, 25042, 25044_2021_A_F_02_SSAssay	Surface sample assay results
EL25031, 25033, 25034, 25035, 25041, 25042, 25044_2021_A_F_03.pdf	Annual and final report 2021

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1.0 ABSTRACT

The relinquished tenements, Exploration Licences 25031, 25033, 25034, 25035, 25041, 25042 and 25044 formed part of Prodigy Gold NL's (Prodigy) Barrow Creek Project which is located approximately 320km NNW of Alice Springs in the western Arunta region (**Figure 1**). and the Barrow Creek Project includes 22 ELs 8766, 23880, 23883, 23884, 23885, 23886, 25031, 25033, 25034, 25035, 25041, 25042 25044, 26825, 28515, 29723, 29724, 29725, 29896, 30470, 30507 and 30637.

Prodigy (former ABM Resources N.L) acquired the tenements to explore for the potential of gold mineralisation.

In the period 20 December 2013 to 19 December 2021 exploration on the relinquished tenements comprised desktop studies, soil sampling and a project wide reprocessing of aeromagnetic data plus a compilation of a project wide basement geology map.

In 2014 potential JV partner Clancy Exploration Ltd (ASX: CLY) ("Clancy") reprocessed aero-magnetic data of the Barrow Creek project area and Dr L. C. Vandenberg included the use of the reprocessed data in his 1:100,000 compilation of a project basement geology map (**Plate 1**).

A total of 5 soil samples were collected by an IGO Limited representative at the Waldron Hill prospect on EL25033 during a reconnaissance trip (**Figure 2**). The best gold assay value of 4.67ppb was returned from sample BC16.

Prodigy reviewed its overall tenement holding at Barrow Creek and concluded to allow the 7 tenements to expire on the 19 December 2021.

2.0 INTRODUCTION

The Barrow Creek project is centred approximately 320km NNW of Alice Springs in the North Arunta region and stretches for 236km west to northwest of the town of Barrow Creek (**Figure 1**).

The Barrow Creek project covers a >200km-long section of the 'Willowra suture', a fossil collisional zone and first-order control on gold in the Tanami Orogen. In addition to gold, the Arunta Orogen is also prospective for copper, lead-zinc, nickel, tin, tantalum, lithium, REE and vanadium ores.

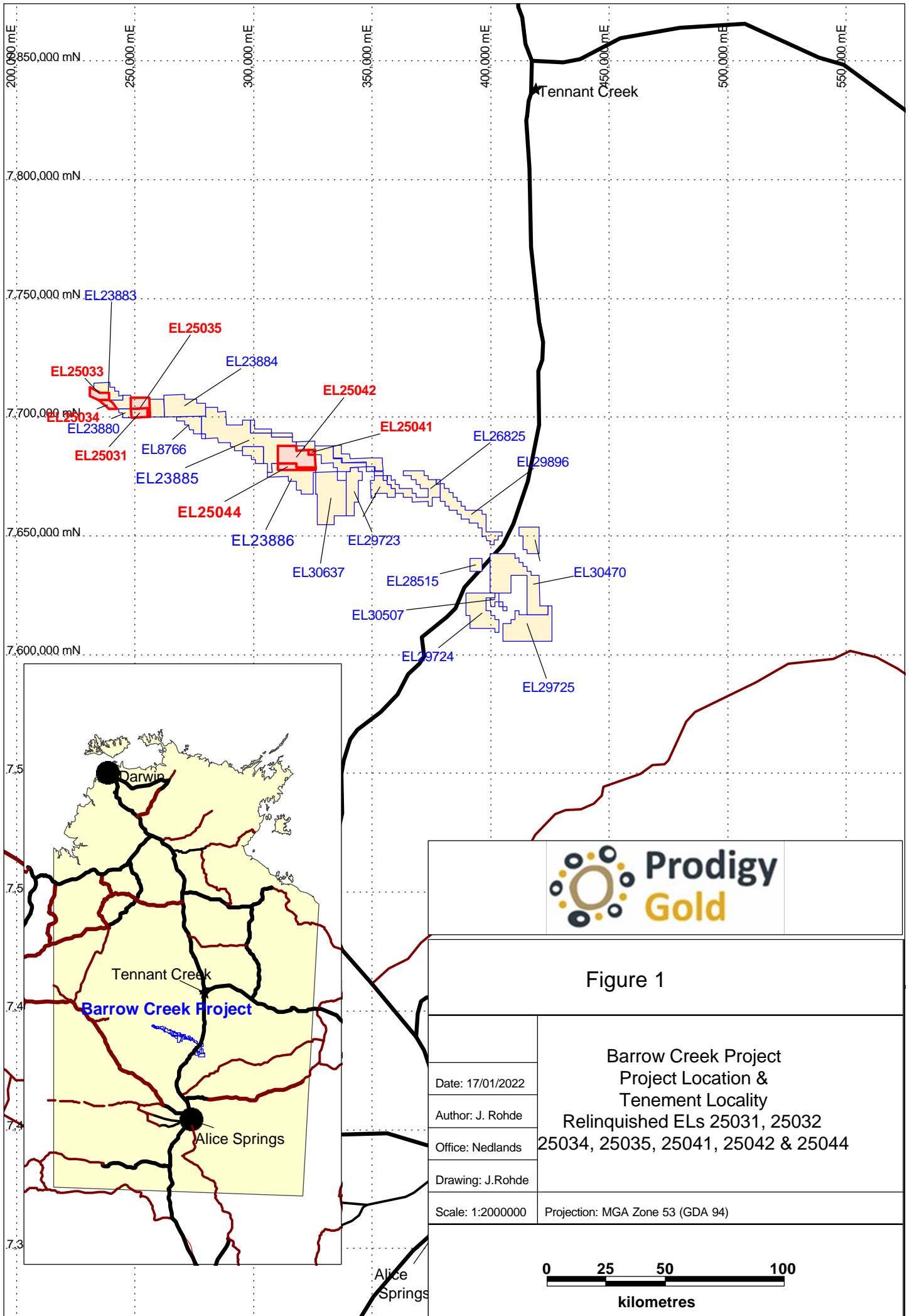
The under lying rocks of Prodigy's Barrow Creek project are interpreted to be equivalent of the Tanami Province rocks.

This report is the annual and final report covering exploration from the grant dates 20-December-2013 to 19-December-2021 in respect of the 7 relinquished tenements, ELs 25031, 25032, 25034, 25035, 25041, 25042 and 25044 at Barrow Creek.

3.0 TENURE

The surrendered tenements ELs 25031, 25033, 25034, 25035, 25041, 25042 and 25044 formed part of Prodigy's (formerly ABM Resources N.L) Barrow Creek project.

On 16 October 2012 amalgamated expenditure reporting for the Barrow Creek titles was granted and the



group ID changed to GR162/12.

On 20 December 2013, ELs 25031, 25033, 25034, 25035, 25041, 25042 and 25044 were granted and added to the GR162 technical reporting group on 24 December 2014.

In May 2018, ABM changed its name to Prodigy Gold NL (Prodigy).

Prodigy reviewed its overall tenement holding at the Barrow Creek project and concluded to allow the 7 tenements to expire on the 19 December 2021.

Tenement details are listed below in **Table 1** and are illustrated in **Figure 1**.

Table 1 List of Relinquished Tenement Details

Tenement No	Blocks	Km ²	Grant Date	Expiry	Comment
EL25031	8	25.69	20-Dec-13	19-Dec-21	allowed to expire
EL25033	12	27.94	20-Dec-13	19-Dec-21	allowed to expire
EL25034	8	15.06	20-Dec-13	19-Dec-21	allowed to expire
EL25035	17	39.35	20-Dec-13	19-Dec-21	allowed to expire
EL25041	4	5.09	20-Dec-13	19-Dec-21	allowed to expire
EL25042	38	111.50	20-Dec-13	19-Dec-21	allowed to expire
EL25044	15	29.01	20-Dec-13	19-Dec-21	allowed to expire

4.0 GEOLOGY

(from Vandenberg 2014)

The detailed differential RTP regional imagery by Fathom Geophysics was used by consultant Dr Leon Vandenberg to compile a 1:100,000 scale basement geology interpretation (**Plate 1**).

The sandy desert plains that dominate much of this area are cut by northerly trending drainage systems and punctuated by several south-east trending low ranges. The drainage systems are only periodically subject to seasonal flooding events and are generally dry. The ranges typically comprise interleaved sedimentary and volcanic rocks of the Early Proterozoic Hatches Creek Group and/or Late Proterozoic to Devonian rocks of the Georgina Basin. The northern edge of the Barrow Creek project area is occupied by the Cambro-Ordovician sedimentary sequences of the Wiso Basin. The oldest rocks in the region, interpreted from integrated geological-geophysical data, are unexposed lithostratigraphic correlatives of the Palaeoproterozoic Dead Bullock Formation.

The Dead Bullock Formation is host to significant gold mineralisation to the northwest in the Tanami and underlies the poorly exposed Palaeoproterozoic Lander Rock Formation (and stratigraphic equivalents) and mafic intrusive rocks of the Aileron Province, Northern Arunta. In the Barrow Creek-Lander River region the Lander Rock Formation and mafic intrusives have proven gold and base-metal prospectivity and have been the focus of recent exploration. The region is also punctuated by several large Palaeoproterozoic felsic intrusive bodies. A suite of felsic intrusive rocks related to the Bean Tree Granite

in the southern portion of the exploration area provides further opportunities for the discovery of commodities such as those in the Barrow Creek Sn-Ta-W Pegmatite Field.

Correlatives of the Dead Bullock Formation (-Ptd?) possibly occur along northern sections from Harrison through to the area north of Tulsa, adjacent to the southern edge of the Wiso Basin and several shear zone bounded granite domains. If correlation of lithostratigraphy from the Tanami to Barrow Creek is valid, then overlying Dead Bullock Formation are the metasedimentary rocks of the Lander Rock Formation. The Lander Rock Formation (-Plr) is considered a stratigraphic equivalent of the turbiditic Killi Killi Formation in the Tanami Region.

Within Barrow Creek project area, metasedimentary rocks of the Lander Rock Formation exhibit Low Pressure – Medium-to High-Temperature metamorphic grade (LP-HT) and comprise biotite-muscovite-andalusite-bearing metapelitic schist, metapsammitic and psammo-pelitic schist.

Approximately twenty kilometres southeast of Waldron's Hill (EL23883) in the Lander River project area, partially outcropping fine-grained moderately foliated amphibolite (-Pld>a) is host to coarse-grained linear mafic bodies (-Pld1) that are generally less than 400 m thick. The cross-cutting coarse-grained mafic bodies may correlate to mineralised mafic material in granite and metasedimentary gneiss at the Waldron's Hill Prospect (EL23883), as well as conformable mafic bodies of typically amphibolite-facies grade recognised throughout the Lander Rock Formation. These mafic bodies (-Pld1) occur as sills, pods or boundin bodies of coarse-grained gabbro, medium-to fine-grained dolerite and localised amphibolite. Mafic bodies in Lander Rock Formation are probable correlatives of dolerite, gabbro and minor monzodioritic sills in the Davenport Province to the northeast.

Granitoids are widespread throughout the northern part of the Aileron Province and extend from Barrow Creek into the Tanami Region to the northwest. These granitoids (-Pg, -Pg>1m, -Pg1, -Pg2, -Pg3, -Pg4, -Pga, -Pgb, -Pgg, -Pgw) intrude Lander Rock Formation and mafic bodies. A variety of textures, grain sizes and compositions are found in the study area. Granitoids are typically equigranular to porphyritic biotite-granite, biotite-muscovite granite, medium-to coarse grained quartz-feldspar-muscovite-tourmaline ± garnet leucogranite with metasedimentary enclaves, biotite-granodiorite and monzogranite. Many granitoids display gneissic to locally mylonitic fabric (-Plg). In adjacent Lander Rock Formation local tourmalisation, pseudomorphic replacement of andalusite by quartz-muscovite and growth of minute garnet porphyroblasts (<2mm diameter) are interpreted to be associated with contact metamorphism during intrusion. Similarly, local hornfels and calc-silicate rock (-Plc) in areas such as the Ringing Rocks Ta-Sn Prospect may be attributed to contact metamorphism. Pegmatite dykes and sills are common in Lander Rock Formation and in particular the Barrow Creek Sn-Ta-W Pegmatite Field.

The metasedimentary rocks of the Lander Rock Formation, together with mafic and granitic rocks, are overlain by open-folded sedimentary and volcanic rock sequences of the Hatches Creek Group.

In Barrow Creek the Hatches Creek Group (-Ph) comprise lower most Gwynne Sandstone (-Phx), interdigitating Tinfish Sandstone (-Php) and Strzeleckie Volcanics (-Phq), and the Illoquarra Sandstone (-Phw). These rocks are interpreted to represent shallow-marine and fluvial sandstone with predominantly subaerial felsic volcanic rocks.

Unconformably overlying the Hatches Creek Group and older stratigraphy are the unmetamorphosed, undivided Neoproterozoic to Devonian sedimentary rocks of the contiguous Southern Georgina and Wiso basins. The interconnected Georgina and Wiso basins (and Daly Basin) collectively formed part of the vast middle-Cambrian Centralian Superbasin that extended across northern, central and southern Australia. Flat lying-to gently undulating sedimentary rock sequences of the Georgina Basin are restricted to the east and southeast portions of the Barrow Creek project area. The Wiso Basin is restricted to the northern margin of the Barrow Creek project area.

Throughout the Barrow Creek project area there are numerous W- WNW-to NW trending thick milky white quartz blows and hydrothermal quartz-breccia zones. These structures are most likely associated with numerous W- WNW-to NW trending faults interpreted from geophysical data. Similarly, the on-ground positions of interpreted faults are often coincident with elongate low mounds of milky quartz lag and areas of scattered quartz lag, float metasedimentary and mafic rock.

First (1) and Second (2) Order structures are large, fundamental crustal-scale structures that appear to have effected considerable deformation and possibly influenced tectono-sedimentation. The fault controlling and defining the southern margin of the Wiso Basin might be considered a First Order structure. In general the large faults and fault-networks across the Barrow Creek project area were assigned Second Order status. Third Order structures (3) are mid-scale structures, many appear to merge or splay from Second Order structures and may be associated with mineralised domains. Fourth Order structures (4) are small scale structures, many of which may have acted in concert with higher order structures, most of which effecting minor apparent displacements (particularly within large granite bodies).

The age of the structures is uncertain however many appear to define a semi-continuous network from the Barrow Creek Region through to the Tanami, parallel to and coincident with the Willowra Gravity Ridge. Results of the 2005 Tanami Seismic Survey indicate many of the faults with comparable scale and along-strike position are fundamental crustal-scale features (associated with a buried Palaeoproterozoic-age continental suture zone) with a probable multi-phase history from the Palaeoproterozoic through to the ~300Ma Alice Springs Orogeny involving extensional basin-formation, reactivation (inversion?) and modification.

5.0 EXPLORATION –10 September 2021 to 19 December 2021

No on ground exploration was conducted on the surrendered tenements during the reporting period from 10 September 2021 to 19 December 2021. Work was limited to assessment of the tenure prior to the relinquishment.

6.0 EXPLORATION SUMMARY - 20 December 2013 to 19 December 2021

During **2013 / 2014** no on ground exploration was completed.

In November 2013 just a month before the relinquished tenements were granted and added to the Barrow Creek project, Prodigy reached an agreement with Clancy whereby Clancy would have had the option to acquire 100% of ABM's interests in the North Arunta Regional Projects, which the GR162-12 tenements form a part of. After the grant date 19 December 2013 the relinquished tenements became part of the project and as such part of the option agreement.

Clancy commenced a substantial program of compilation and re-processing of potential field datasets covering an Area of Influence (AOI) in the Tanami – North Arunta region, which includes the Barrow Creek project. This work was undertaken by Fathom Geophysics.

Public domain data and closed file ABM surveys of Total Magnetic Intensity (TMI) data were processed using the differential Reduced to the Pole method to produce a selection of images for a later stage interpretation.

The detailed differential Reduced to the Pole regional imagery by Fathom Geophysics was used by consultant Dr Leon Vandenberg to compile a 1:100,000 scale basement geology interpretation (**Plate 1**).

By 2nd August 2014 Clancy had not completed the proposed transaction under the negotiated terms, and renegotiations were initiated.

During **2014 / 2015** reporting period the renegotiations with Clancy Exploration Ltd (ASX: CLY) ("Clancy") had not led to an agreement and the renegotiations were ended.

ABM continued with its divestment policy by introducing potential JV partner Independence Group NL., Perth (IGO) representatives to the project area in general. A total of 5 soil samples were collected by a IGO representative at the Waldron Hill prospect on EL25033 during a reconnaissance trip (**Figure 2**). .

The best gold assay value of 4.67ppb was returned from sample BC16

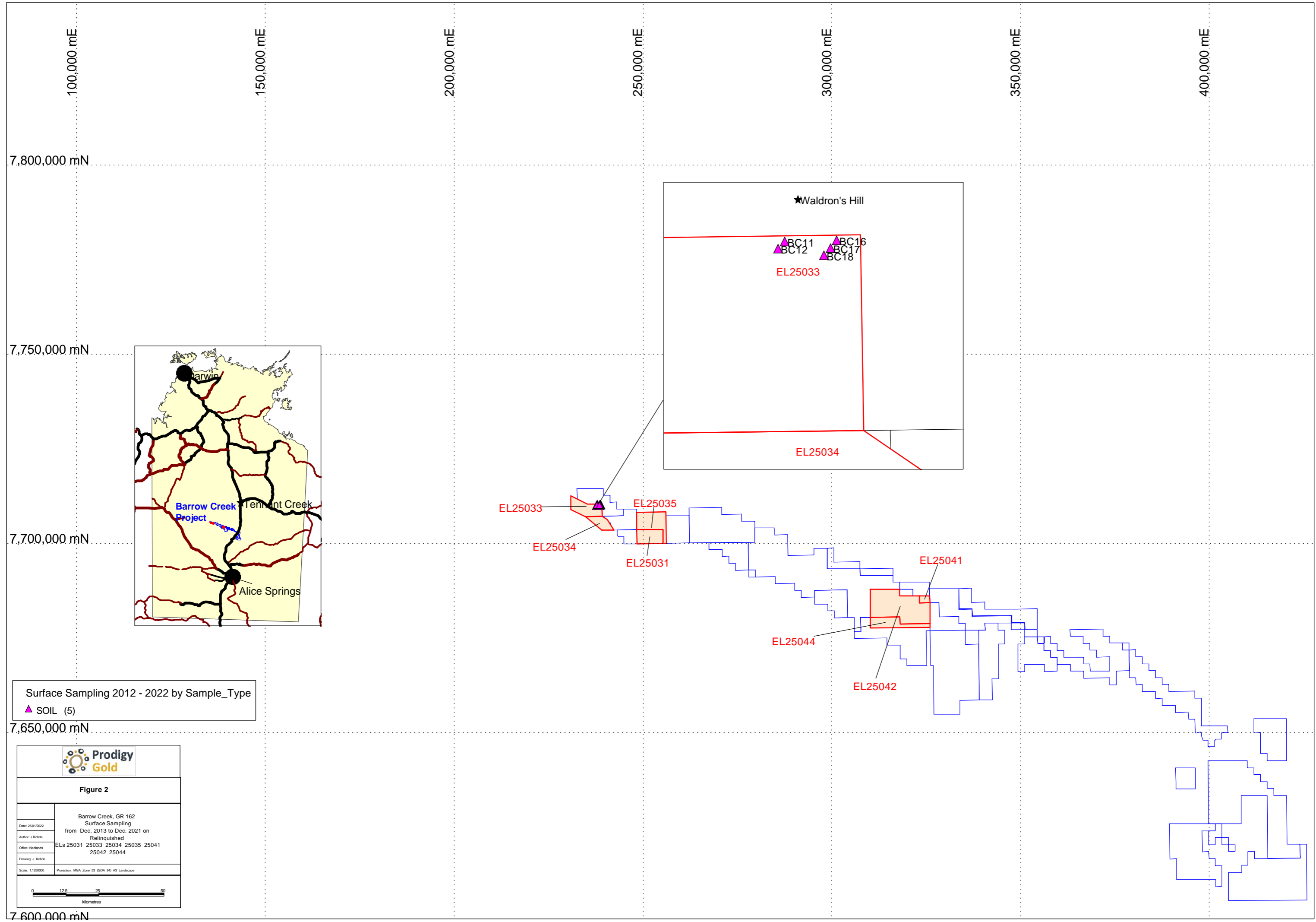
All surface sample locations are shown on **Figure 2**. All samples were multi-element assayed. All surface sampling data is included in the appendices.

During **2015 to 2020** no exploration was completed as Prodigy focused on higher ranking prospects of the Barrow Creek project.

7.0 CONCLUSIONS AND RECOMMENDATIONS

In November 2021 Prodigy undertook an assessment of its tenement holdings which resulted in a proposal to relinquish 7 of the Barrow Creek project tenements; EL25031, 25033, 25034, 25035, 25041, 25042 and 25044.

The proposal was based on the rationale to focus future exploration efforts at this stage on the more prospective targets which rank higher on the list of priorities.



100,000 mE

150,000 mE

200,000 mE

250,000 mE

300,000 mE

350,000 mE

400,000 mE

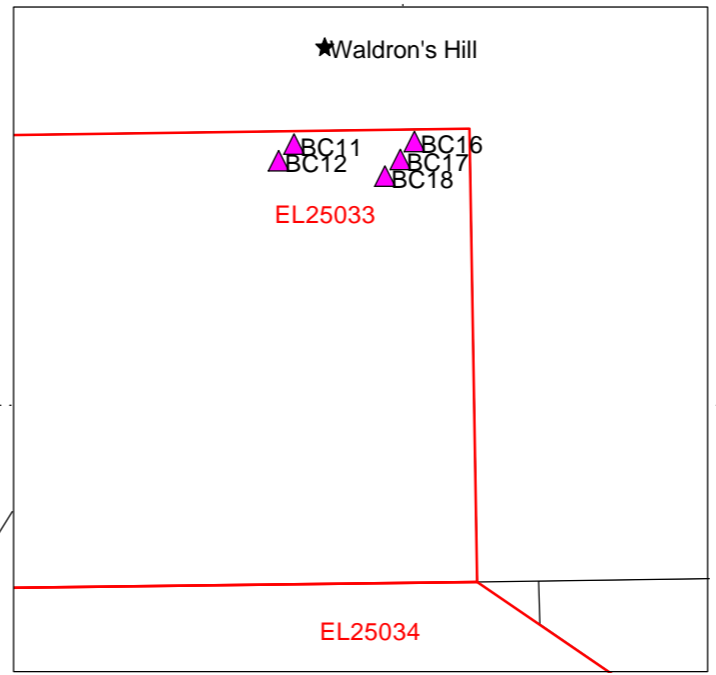
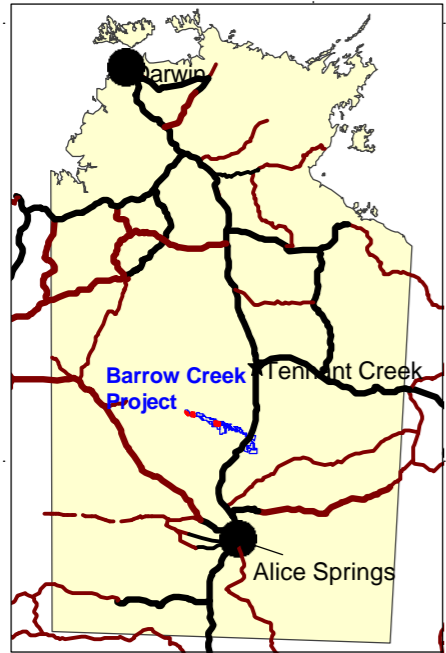
7,800,000 mN

7,750,000 mN

7,700,000 mN

7,650,000 mN

7,600,000 mN



Surface Sampling 2012 - 2022 by Sample_Type
 ▲ SOIL (5)

Prodigy Gold

Figure 2

Barrow Creek, GR 162
 Surface Sampling
 from Dec. 2013 to Dec. 2021 on
 Relinquished

Date: 25/01/2022	ELs 25031 25033 25034 25035 25041 25042 25044
Author: J. Rohde	
Office: Nedlands	
Drawing: J. Rohde	

Scale: 1:125000 Projection: MGA Zone 53 (GDA 94) A3 Landscape

8.0 REFERENCES

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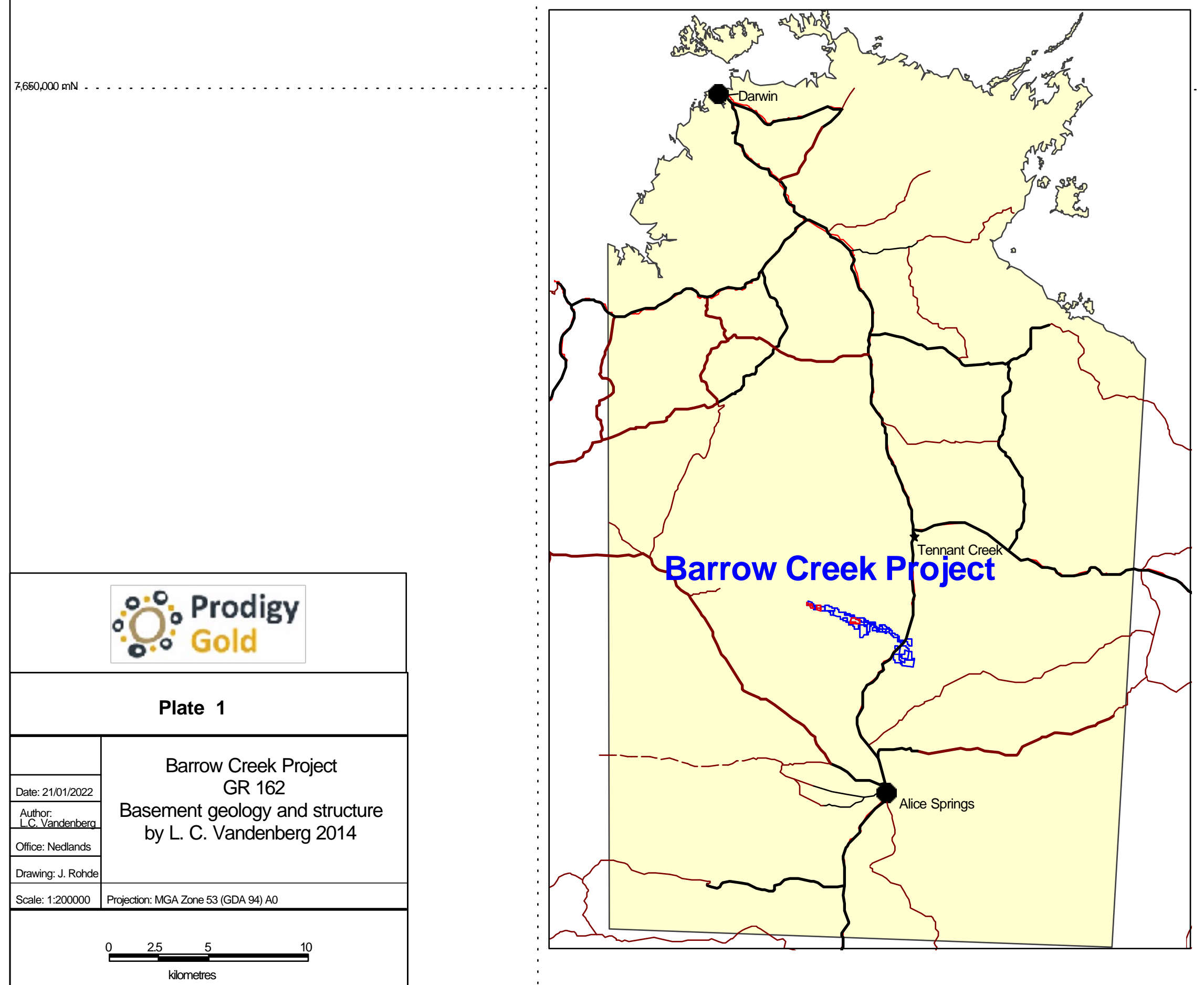
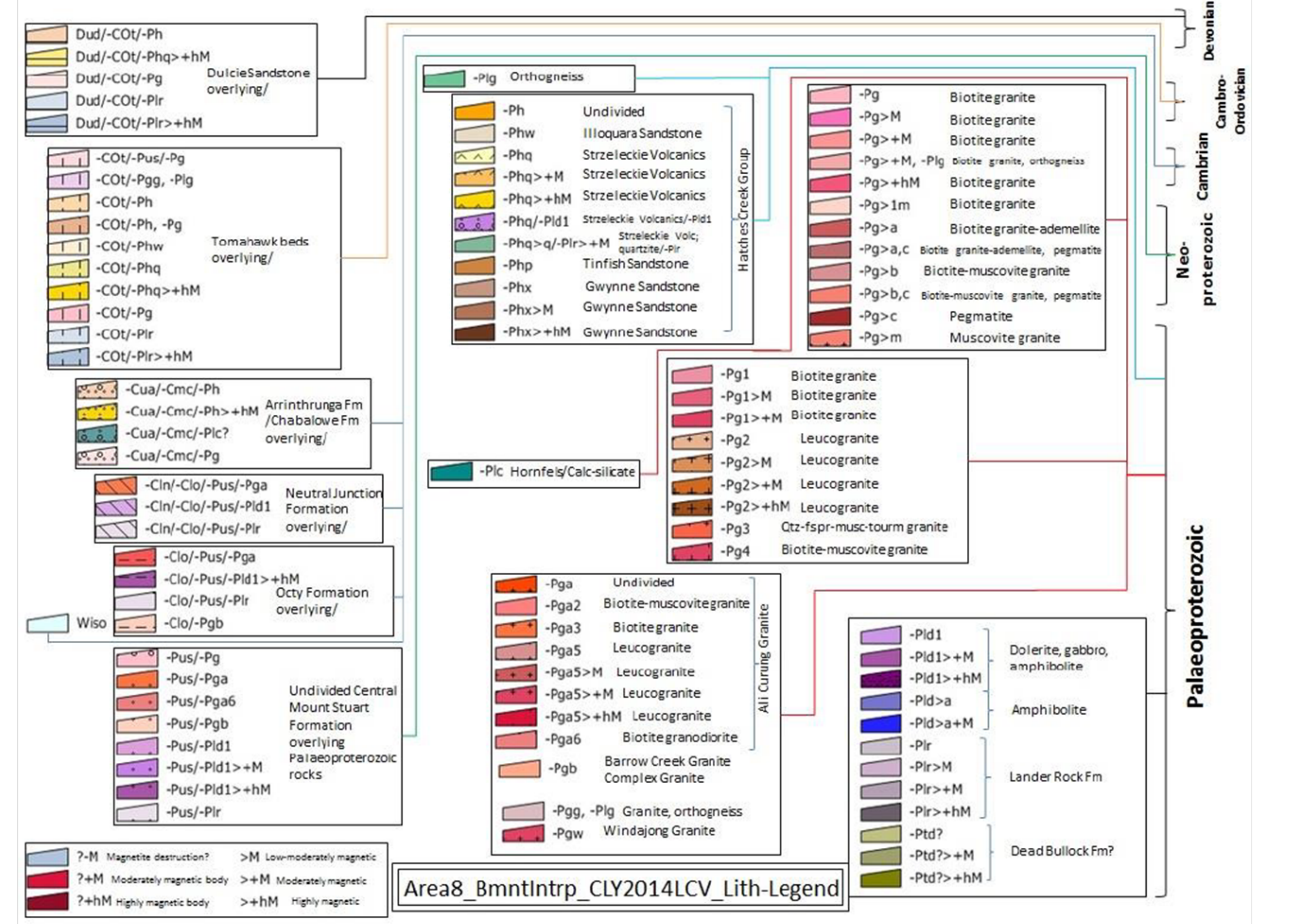
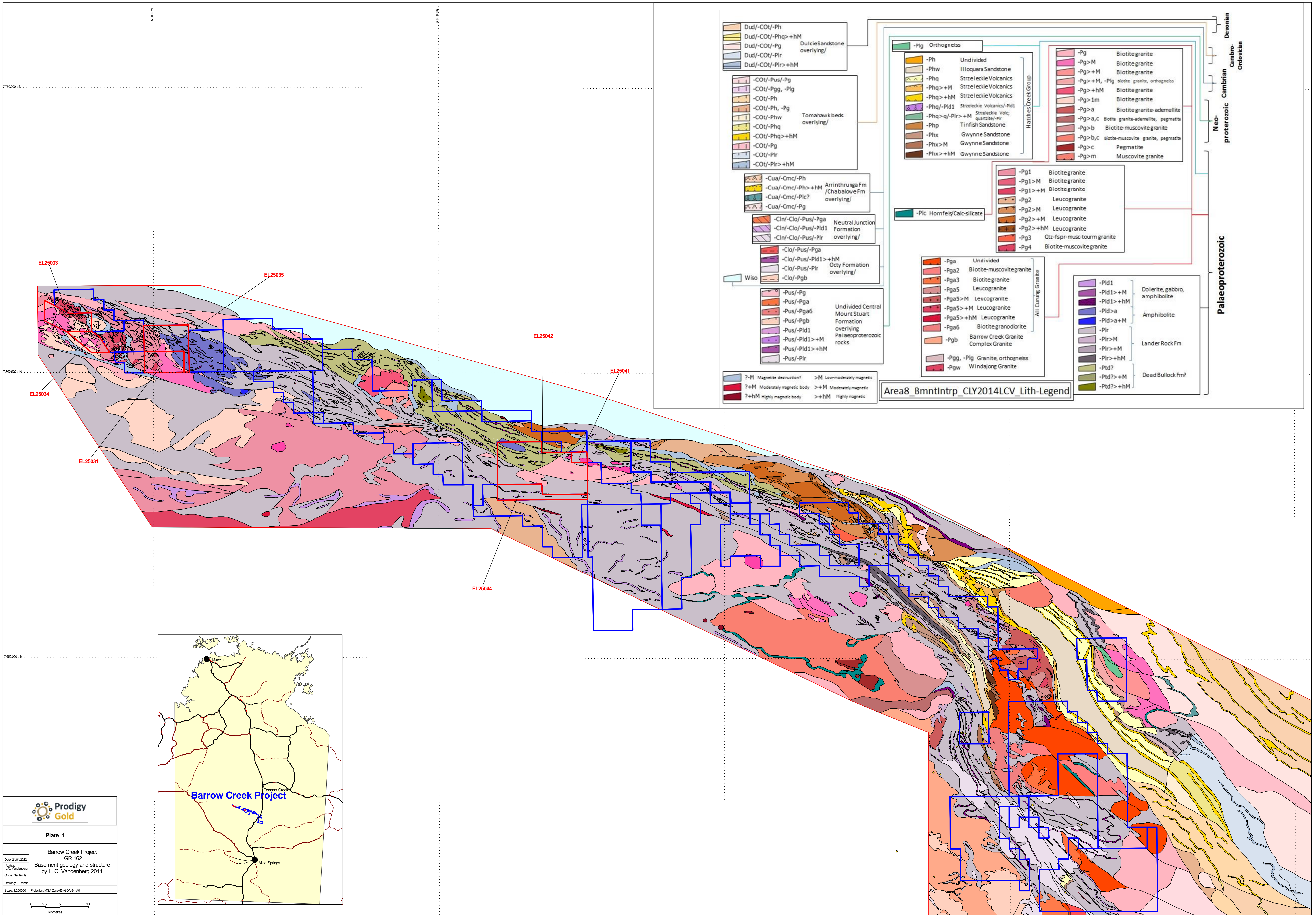
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Prodigy Gold
 Plate 1
 Barrow Creek Project GR 162
 Basement geology and structure
 by L. C. Vandenberg 2014
 Date: 21/01/2012
 Author: L. C. Vandenberg
 Office: Hobart
 Drawing: J. Rhode
 Scale: 1:20000
 Projection: MGA Zone 53 (GDA 94 AG)
 0 2.5 5 10
 Kilometres