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23rd January 2020

Dear Belinda,

GWR Group Limited (GWR) are proposing to develop the Eagle and Emu Prospects within the Wiluna West Banded Ironstone Formation (BIF) ranges.

On the 10th of September 2019, Native Vegetation Solutions (NVS) was commissioned by GWR via Clark Lindbeck and Associates (CLA) to complete a Targeted Threatened Flora survey at the Eagle and Emu Prospects (NVS, 2019).

Since then adjustments to the mine plan have been made and additional areas outside of the original survey area were required to be surveyed targeting Threatened Flora. NVS was again commissioned by GWR on 22nd January 2020 to complete a Targeted Threatened Flora survey of this additional area.

GPS locations of the additional survey area was provided to NVS by CLA. A total survey area of approximately 126.80 ha was traversed via 4-wheel-drive vehicle and on foot. Previously known locations of Priority Flora identified in several previous reports were also visited in the field: JSWT (2006), KLA (2010), Markey and Dillon (2009), Read (2010) and NVS (2010 & 2011). Population boundaries of recorded Priority Flora were loosely followed with ± 10 metre buffers. Depending on the density of plants observed at each site, lots of 5, 10, 20, 30, 50 or 100 plants were individually counted and marked with a GPS location as the population boundary was walked.

Survey efforts were concentrated in areas of suitable habitat for Priority Flora, particularly on ridges and the sloping plains below them or outcrops, whereas unsuitable habitat was surveyed less intensively.

Priority Flora encountered was marked with a GPS and a tally of the plant numbers was conducted (Table 1 below). The locations of Priority Flora are included in Appendices attached.

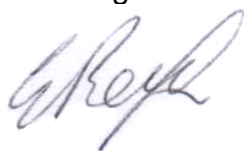
Table 1: Priority Flora encountered within the proposed disturbance area.

TAXONNAME	WA CON STAT	ABUNDANCE	WITHIN BOUNDARY OF PROPOSED CLEARING	LONGITUDE	LATITUDE	REGIONAL POPULATION	PERCENTAGE OF REGIONAL POPULATION
<i>Maireana prosthocochaeta</i>	P3	1	Yes	119.950295	-26.749231	At least 1000	At most 0.1%
<i>Maireana prosthocochaeta</i>	P3	2	No	119.948388	-26.745575	At least 1000	At most 0.2%
<i>Maireana prosthocochaeta</i>	P3	20	No	119.949347	-26.746484	At least 1000	At most 2%
<i>Maireana prosthocochaeta</i>	P3	5	No	119.949181	-26.746572	At least 1000	At most 0.5%
<i>Ptilotus chrysocomus</i>	P1	70	No	119.948866	-26.745457	At least 1000	At most 7%

Although removal of the plants within the survey area is likely to have a low impact on these species locally, the regional implications are considered insignificant.

If you have any queries regarding this work completed, please do not hesitate to contact me on the above-mentioned contact details.

Kind Regards



Eren Reid
Director/Botanist

References

JSWT, (2006). *Flora and Vegetation of the Wiluna West Banded Ironstone Formations*. Unpublished report prepared for Golden West Resources Ltd, September 2006.

KLA (2010), *Sida picklesiana* (A. Markey and S. Dillon 4126) P1- REGIONAL FLORA SURVEY, Unpublished report by Keith Lindbeck and Associates produced for Golden West Resources Ltd.

Markey A. S. and Dillon S. J., (2009), *Flora and vegetation of the banded iron formations of the Yilgarn Craton: Herbert Lukin Ridge (Wiluna)*, Conservation Science W. Aust. 7 (2): 391-412

NVS, (2010), *Targeted Threatened Flora Survey of exploration targets within the C1, C3 and Joyner's Find areas of the Wiluna West Project, December 2010*, Unpublished report prepared for Golden West Resources Ltd

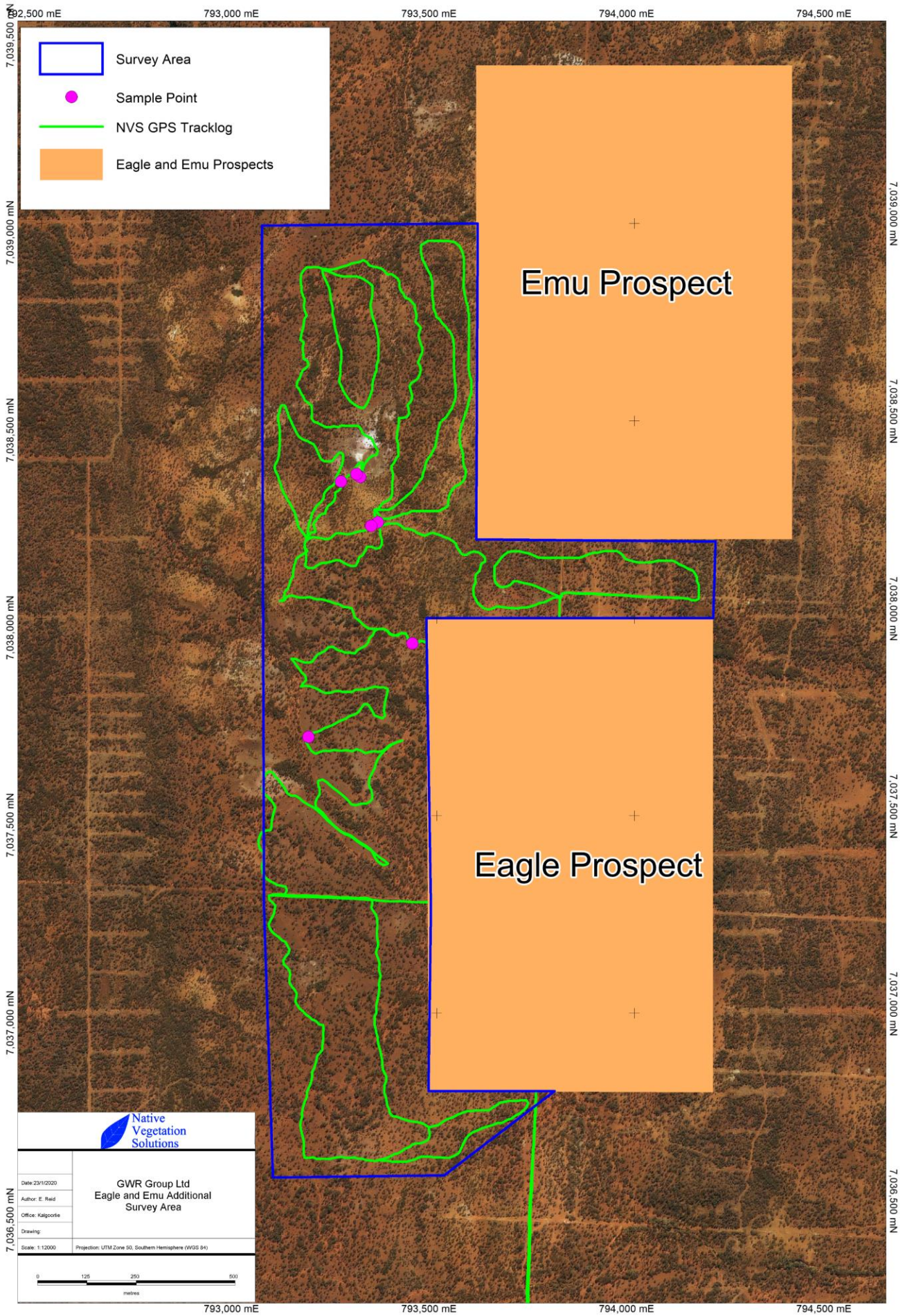
NVS, (2011), *Targeted Threatened Flora Survey of exploration targets within the Golden Monarch, Gold Finch, Iron King, Band 5/6, CJ, C2, South 2 and South 4 areas of the Wiluna West Project, March 2011*, Unpublished report prepared for Golden West Resources Ltd





NVS, (2019), *Targeted Threatened Flora Search of the Eagle and Emu Prospects- September 2019*, Unpublished Report Prepared for GWR Group Ltd

Read, T.J., (2010), *Herbert Lukin Ridge & Surrounds Vegetation Survey*, Unpublished Report prepared for Golden West Resources Ltd by Recon Environmental, May 2010, Report No. GWR01

WAHERB, (2019), *Florabase – The Western Australian Flora*, Department of Biodiversity, Conservation and Attractions.
<http://florabase.dpaw.wa.gov.au/>


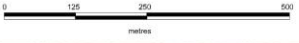
Appendix 1: Maps

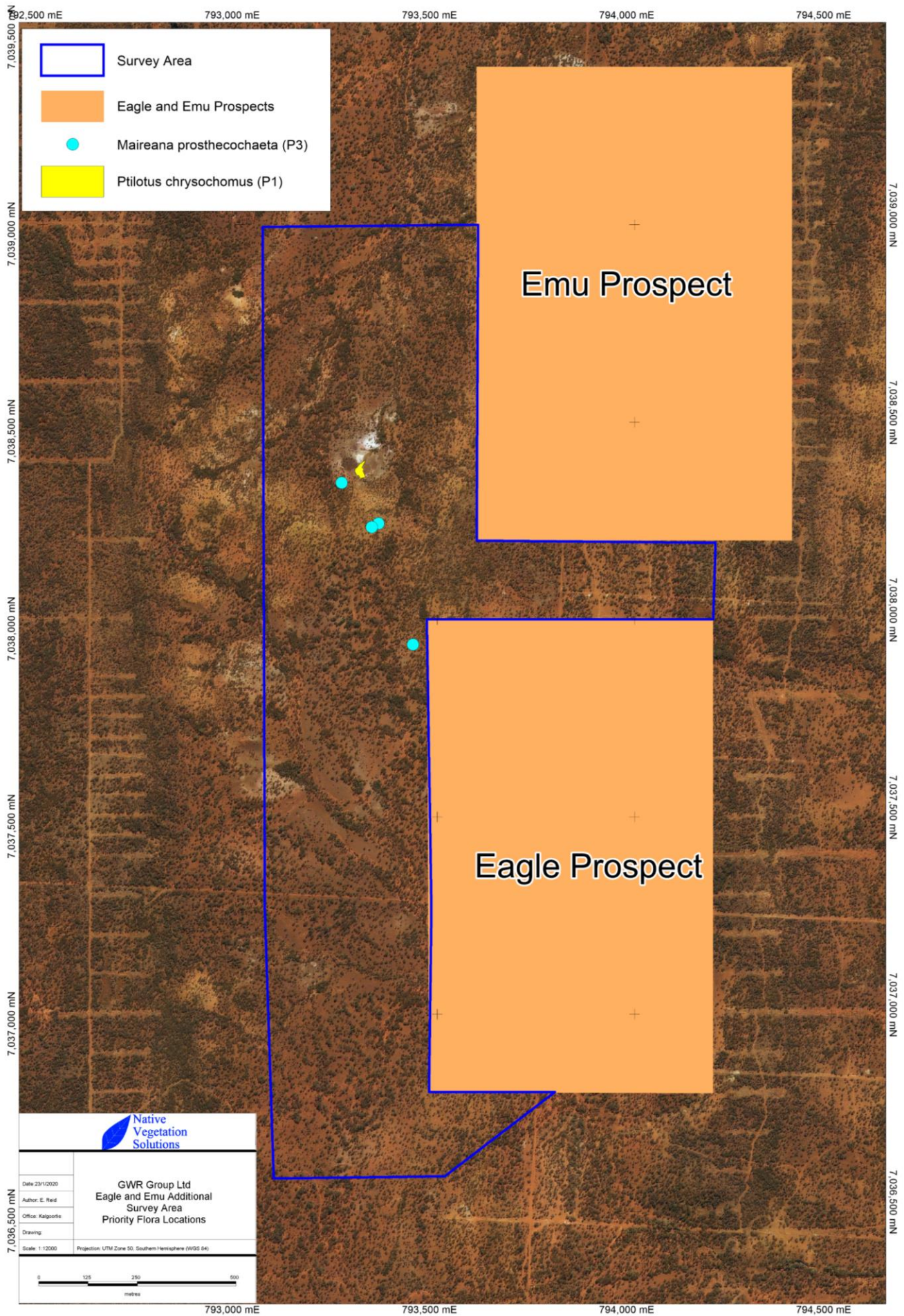


	Survey Area
	Sample Point
	NVS GPS Tracklog
	Eagle and Emu Prospects

Emu Prospect

Eagle Prospect

	
GWR Group Ltd Eagle and Emu Additional Survey Area	
Date: 23/10/2020	
Author: E. Reid	
Office: Kalbarrie	
Drawing:	
Scale: 1:12000	Projection: UTM Zone 50, Southern Hemisphere (WGS 84)
	



- Survey Area
- Eagle and Emu Prospects
- *Maireana prosthochaeta* (P3)
- Ptilotus chrysochomus* (P1)

Emu Prospect

Eagle Prospect



Native Vegetation Solutions	
Date: 23/10/2020	GWR Group Ltd Eagle and Emu Additional Survey Area Priority Flora Locations
Author: E. Reid	
Office: Kalgoorlie	
Drawing:	
Scale: 1:12000	Projection: UTM Zone 50, Southern Hemisphere (WGS 84)