



16 October, 2024

Sumo Niobium Target Confirmed as Large, Robust & Drill Ready

Key Points

- The Sumo Niobium Target is a large, robust and coherent 2km long by 1km wide lag niobium soil anomaly, located 70km south-east of Sandfire Resources' DeGrussa Copper-Gold Project and within Great Western's 100% owned Yerrida North Project.
- Sampling found niobium multi element anomalism was co-incident with As, Ag, Bi, Cr, Mo, Sb, Sn, Ta, Ti, Th, U W and Zr, with these pathfinder elements commonly associated with carbonatite niobium deposits.
- Subsequent Heavy Mineral Concentrate (HMC) spectral analysis has confirmed the Sumo Niobium Target is drill ready, with the niobium mineralisation found to share a close association with titanium. This association is a common surface expression for niobium deposits, often found with weathered niobium mineralisation systems (e.g. carbonatites systems) with secondary niobium mineralisation below surface.
- The HMC analysis also confirmed the initial interpretation that the Sumo Target's niobium anomalism is not related to iron or manganese scavenging.
- Sumo's prospectivity is highlighted by the coincident lag-soil pathfinder geochemistry, located on magnetic and gravity highs, which further supports its potential, and field reconnaissance has verified Sumo is insitu.
- Great Western has now furthered preparations for drilling Sumo, with a heritage survey now scheduled for next month.

Great Western Exploration (ASX: GTE) is pleased to announce heavy mineral concentrate (HMC) analysis results have been received, confirming the Company's large, robust, and coherent Sumo Niobium Target is drill ready.

The Sumo Niobium Target is within the Company's 100% Yerrida North Project, located on the western portion of the Yerrida Basin, approximately 800km north-east of Perth and 90km north-west of the town of Wiluna (see Figure 1), 70km south-east of Sandfire Resources' DeGrussa Copper-Gold Project.



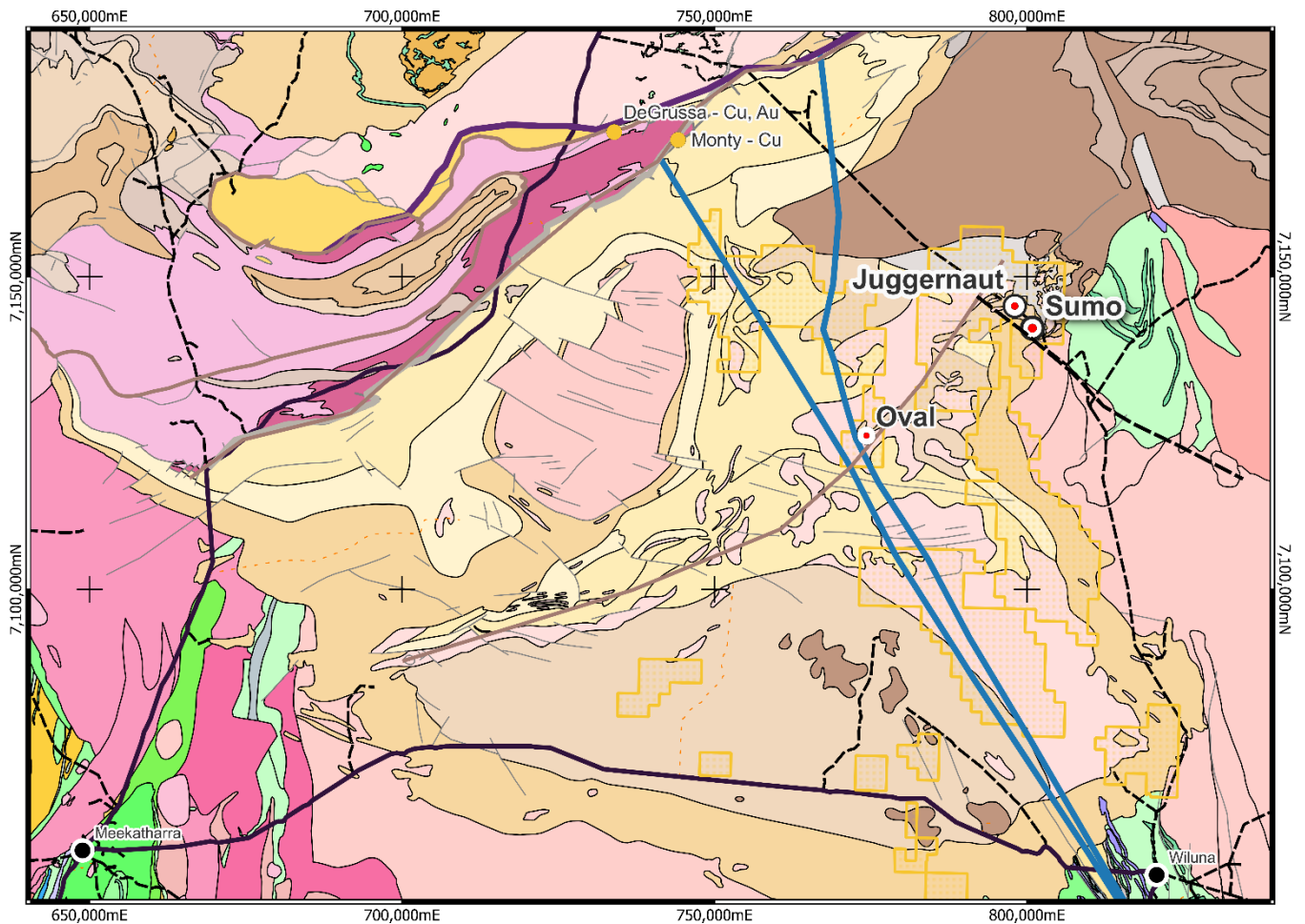


Figure 1: Location of the Sumo Niobium Target in relation to Oval and Juggernaut, within the Yerrida Basin.

The Sumo Niobium Target was defined by lag soil sampling, with a large, coherent >20ppm niobium anomaly measuring 2km x 1km wide delineated (Figure 2, GTE ASX Announcement 12 September 2024). The niobium anomalism is co-incident with As, Ag, Bi, Cr, Mo, Sb, Sn, Ta, Ti, Th, U W and Zr, with these pathfinder elements commonly associated with carbonatite niobium deposits (Figure 3, GTE ASX Announcement 12 September 2024).

Heavy mineral concentrate sampling (HMC) was completed (Figure 4), to better understand the mineralogy related to niobium mineralisation, and to further develop a genetic mineralisation model for future exploration programmes. Thirty-four samples were collected and scanned, with spectral analysis and interpretation completed. The results reported included grain, mineral and elemental counts, and mineralogy and pixel chemistry.

The HMC analysis confirmed the Sumo Niobium Target is drill ready, with the results finding niobium mineralisation was closely related to titanium, interpreted to be most likely contained with the mineral Ilmenite. This association is often found with weathered niobium mineralisation systems (for example carbonatite systems, Mitchell 2015), with secondary niobium mineralisation potentially located below surface. In addition, the HMC results supported the initial



interpretation that the niobium soil anomaly is not related to iron and manganese scavenging (GTE ASX Announcement 12 September 2012). Mineral counts found the dominant mineralogy to be iron-oxides and aluminium-iron silicates, indicative of a weathered regolith.

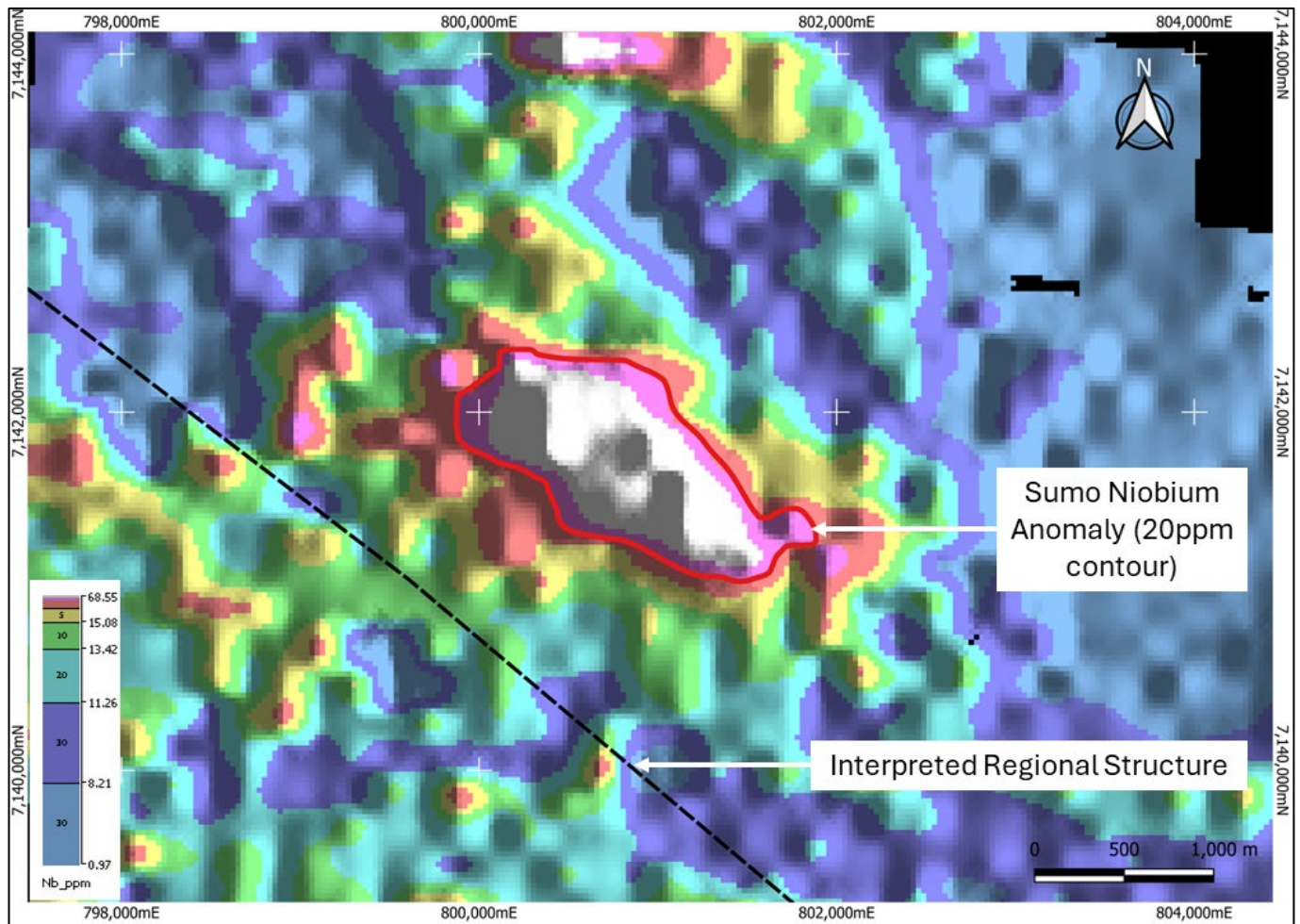


Figure 2: 2km x 1km discrete Sumo Niobium Target. Note regional structure interpreted from gravity and magnetic data, and potentially evident in the geochemistry results.



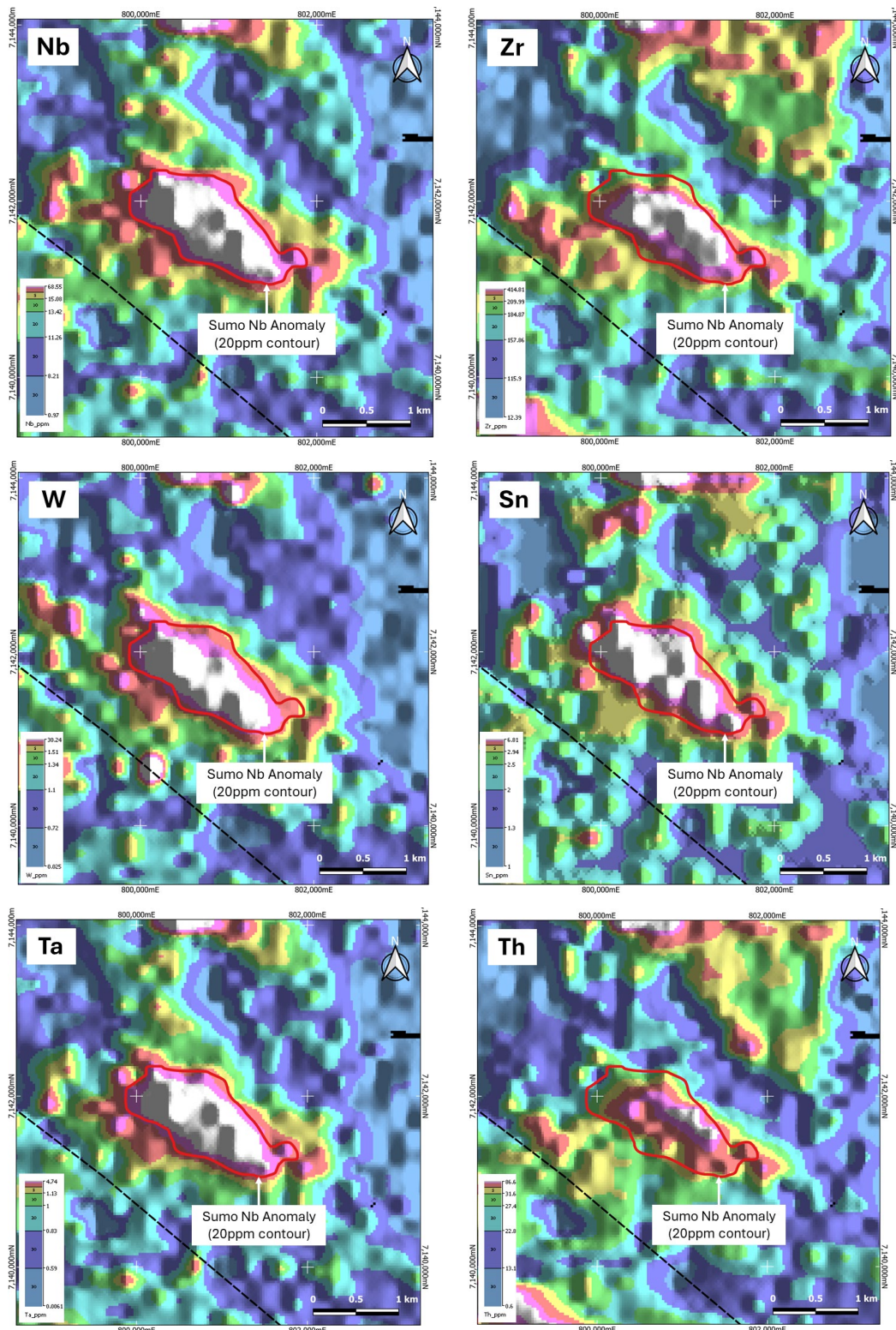


Figure 3: Niobium lag soil anomalism (top left), that strongly correlates with several pathfinder elements (Zr, W, Sn, Ta, Th), that are commonly associated with carbonatite niobium deposits. Note 20ppm Nb contour (red polygon) for comparison on individual pathfinder soil anomalism maps.



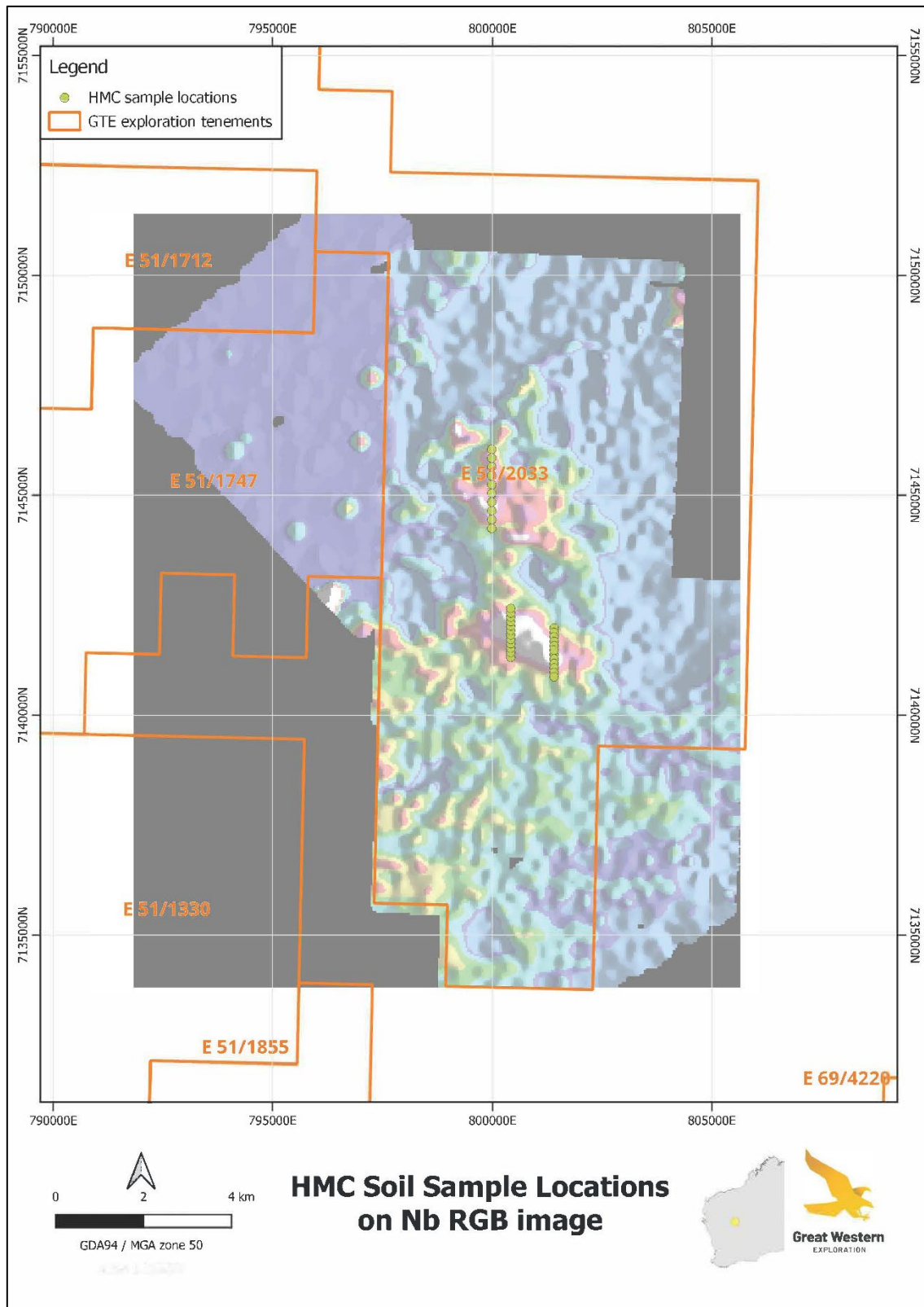


Figure 4: Locations of the heavy mineral concentrate samples taken at Sumo. Background image is the niobium Z-score lag-soil anomalism at Sumo (GTE ASX Announcement 12 September 2024).



Great Western has now furthered preparations for drilling Sumo, with a heritage clearance now scheduled to be undertaken next month.

Authorised for release by the Board of Directors of Great Western Exploration Limited.

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Previous ASX Releases – GTE.ASX

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2. 12 September 2024 Large Compelling Niobium Soil Anomaly Identified in WA.

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Competent Person Statement

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr. Shane Pike who is a member of the Australian Institute of Mining and Metallurgy. Mr. Pike is an employee of Great Western Exploration Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Pike consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to the Company's Exploration Results is a compilation of Results previously released to ASX by Great Western Exploration (17/08/2023 and 12/09/2024). Mr. Shane Pike consents to the inclusion of these Results in this report. Mr. Pike has advised that this consent remains in place for subsequent releases by the Company of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent. The Company confirms that it is not aware of any new information or



data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters in the market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

References

Mitchel R.H, 2015, Primary and Secondary Niobium Mineral Deposits Associated with Carbonatites, Ore Geology Reviews. 64. 626-641.

About Great Western Exploration

Great Western Exploration (GTE.ASX) is an explorer with a world class, large land position in prolific regions of Western Australia. Great Western's tenements have been under or virtually unexplored.

Numerous work programmes across multiple projects are underway and the Company is well-funded with a tight capital structure, providing leverage to exploration success.



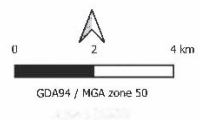
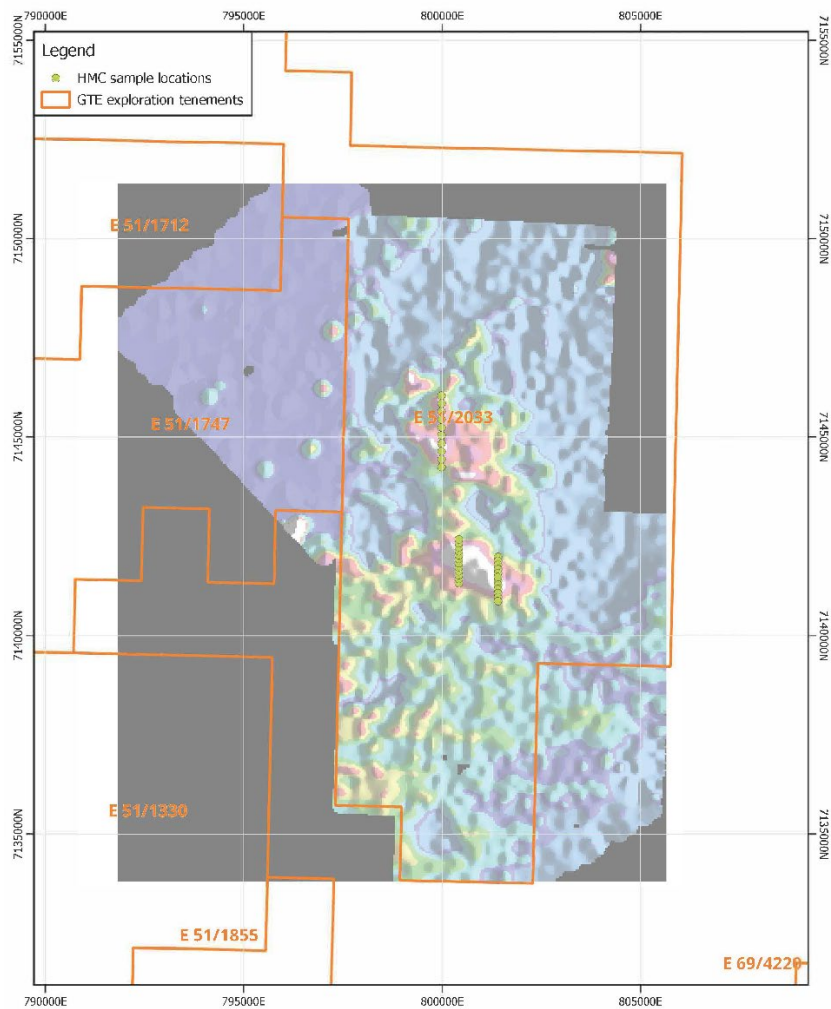
Appendix 1

Data Location and Results

Sample Location Table:

Project	Prospect	SampleID	TDepth	Actual Easting	Actual Northing	RL	Grid
YER	Sumo	YHM001	0.25	800418.5	7141318	565.606	GDA94_50S
YER	Sumo	YHM002	0.25	800418.5	7141418	565.606	GDA94_50S
YER	Sumo	YHM003	0.25	800418.5	7141518	565.606	GDA94_50S
YER	Sumo	YHM004	0.25	800418.5	7141618	565.606	GDA94_50S
YER	Sumo	YHM005	0.25	800418.5	7141718	565.606	GDA94_50S
YER	Sumo	YHM006	0.25	800418.5	7141818	565.606	GDA94_50S
YER	Sumo	YHM007	0.25	800418.5	7141918	565.606	GDA94_50S
YER	Sumo	YHM008	0.25	800418.5	7142018	565.606	GDA94_50S
YER	Sumo	YHM009	0.25	800418.5	7142118	565.606	GDA94_50S
YER	Sumo	YHM010	0.25	800418.5	7142218	565.606	GDA94_50S
YER	Sumo	YHM011	0.25	800418.5	7142318	565.606	GDA94_50S
YER	Sumo	YHM012	0.25	800418.5	7142418	565.606	GDA94_50S
YER	Sumo	YHM013	0.25	801406.2	7141971	562.682	GDA94_50S
YER	Sumo	YHM014	0.25	801406.2	7141871	562.682	GDA94_50S
YER	Sumo	YHM015	0.25	801406.2	7141771	562.682	GDA94_50S
YER	Sumo	YHM016	0.25	801406.2	7141671	562.682	GDA94_50S
YER	Sumo	YHM017	0.25	801406.2	7141571	562.682	GDA94_50S
YER	Sumo	YHM018	0.25	801406.2	7141371	562.682	GDA94_50S
YER	Sumo	YHM019	0.25	801406.2	7141471	562.682	GDA94_50S
YER	Sumo	YHM020	0.25	801406.2	7141271	562.682	GDA94_50S
YER	Sumo	YHM021	0.25	801406.2	7141171	562.682	GDA94_50S
YER	Sumo	YHM022	0.25	801406.2	7141071	562.682	GDA94_50S
YER	Sumo	YHM023	0.25	801406.2	7140971	562.682	GDA94_50S

YER	Sumo	YHM024	0.25	801406.2	7140871	562.682	GDA94_50S
YER	Sumo	YHM025	0.25	799983.2	7144240	566.958	GDA94_50S
YER	Sumo	YHM026	0.25	799983.2	7144440	566.958	GDA94_50S
YER	Sumo	YHM027	0.25	799983.2	7144640	566.958	GDA94_50S
YER	Sumo	YHM028	0.25	799983.2	7144840	566.958	GDA94_50S
YER	Sumo	YHM029	0.25	799983.2	7145040	566.958	GDA94_50S
YER	Sumo	YHM030	0.25	799983.2	7145240	566.958	GDA94_50S
YER	Sumo	YHM031	0.25	799983.2	7145440	566.958	GDA94_50S
YER	Sumo	YHM032	0.25	799983.2	7145640	566.958	GDA94_50S
YER	Sumo	YHM033	0.25	799983.2	7145840	566.958	GDA94_50S
YER	Sumo	YHM034	0.25	799983.2	7146040	566.958	GDA94_50S



**HMC Soil Sample Locations
on Nb RGB image**



Batch Mineralogy Summary Table:

Client ID	Laboratory ID	Grain Count	Dominant Mineral	Dominant Mineral Count	Avg Diameter (mm)	Sample Weight (g)	Coverage (%)	Spread Factor
YMC001	00195-0001	1634	AlFe-Silicate	818	0.42	0.19	66	97.8
YMC001	00195-0035	1373	AlFe-Silicate	743	0.46	0.23	67	97.2
YMC001	00195-0037	1209	AlFe-Silicate	610	0.46	0.28	72	98.3
YMC002	00195-0002	1258	Oxide-Fe	647	0.48	0.23	65	98.3
YMC003	00195-0003	1236	AlFe-Silicate	822	0.49	0.27	75	97.9
YMC004	00195-0004	930	AlFe-Silicate	542	0.52	0.23	58	97.1
YMC005	00195-0005	1436	AlFe-Silicate	772	0.45	0.24	72	98.1
YMC006	00195-0006	1227	AlFe-Silicate	700	0.48	0.24	64	97.7
YMC007	00195-0007	1258	AlFe-Silicate	666	0.47	0.24	70	98.2
YMC008	00195-0008	1510	AlFe-Silicate	869	0.45	0.26	81	98.9
YMC009	00195-0009	1578	Oxide-Fe	814	0.43	0.21	73	97.8
YMC010	00195-0010	1151	AlFe-Silicate	721	0.49	0.21	66	97
YMC011	00195-0011	838	Oxide-Fe	439	0.53	0.23	57	98
YMC012	00195-0012	1418	Oxide-Fe	833	0.45	0.22	70	98.3

YMC013	00195-0013	1491	AlFe-Silicate	787	0.43	0.23	73	97.9
YMC014	00195-0014	1021	AlFe-Silicate	564	0.48	0.24	59	97
YMC015	00195-0015	1173	AlFe-Silicate	726	0.49	0.25	67	97.1
YMC016	00195-0016	1464	AlFe-Silicate	735	0.46	0.24	80	98.6
YMC017	00195-0017	1398	AlFe-Silicate	772	0.46	0.26	77	98.7
YMC018	00195-0018	1169	Oxide-Fe	647	0.49	0.22	65	98.8
YMC019	00195-0019	1411	Oxide-Fe	841	0.45	0.23	70	97.1
YMC020	00195-0020	1087	Oxide-Fe	624	0.48	0.22	59	97.8
YMC021	00195-0021	1303	Oxide-Fe	849	0.47	0.26	70	98
YMC022	00195-0022	1239	Oxide-Fe	771	0.49	0.27	74	97.7
YMC023	00195-0023	1571	AlFe-Silicate	788	0.44	0.25	80	98.2
YMC024	00195-0024	1171	AlFe-Silicate	590	0.52	0.26	80	98.6
YMC025RPT	00195-0036	1386	Oxide-Fe	720	0.47	0.27	75	98.2
YMC025	00195-0025	1387	AlFe-Silicate	697	0.46	0.25	73	98
YMC026	00195-0026	1421	AlFe-Silicate	766	0.46	0.28	79	98.4
YMC027	00195-0027	1579	Oxide-Fe	793	0.45	0.28	83	98.3

YMC028	00195-0028	1315	AlFe-Silicate	806	0.47	0.28	73	98.2
YMC029	00195-0029	1573	AlFe-Silicate	935	0.43	0.26	78	98.7
YMC030	00195-0030	1159	AlFe-Silicate	575	0.49	0.25	65	98.6
YMC031	00195-0031	1228	Oxide-Fe	639	0.48	0.27	70	97.4
YMC032	00195-0032	1289	Oxide-Fe	661	0.47	0.24	70	98.1
YMC033	00195-0033	1592	Oxide-Fe	787	0.44	0.28	82	98.7
YMC034	00195-0034	1592	Oxide-Fe	957	0.45	0.24	82	98.9

Mineralogy Data:

Sample Number	AlFe-Silicate	AlFe-Silicate_Zn	AlK-Silicate	AlMn-Silicate	Amphibole	Baryte	Epidote	Fe-Sulphide_Zn	FeMg-Silicate	Ilmenite	Monazite	Oxide-Fe	Oxide-MgAl	Oxide-Zn	Quartz	Rutile	Tourmaline
UNITS	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct	pct
Detection Limit	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Method	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS	AMICS
YMC001_00195-0001	36.719	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.215	0.421	<0.001	39.967	<0.001	<0.001	0.025	<0.001	0.554
YMC001_00195-0035	37.289	<0.001	0.017	0.017	0.008	<0.001	<0.001	<0.001	0.314	0.347	<0.001	38.636	<0.001	<0.001	<0.001	<0.001	0.471
YMC001_00195-0037	39.455	0.008	0.025	0.050	<0.001	<0.001	<0.001	<0.001	0.231	1.207	<0.001	40.727	<0.001	<0.001	<0.001	0.017	0.488
YMC002_00195-0002	33.851	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.843	0.537	<0.001	40.818	<0.001	<0.001	0.041	<0.001	0.702
YMC003_00195-0003	48.041	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.686	0.331	<0.001	30.380	<0.001	<0.001	<0.001	<0.001	0.636
YMC004_00195-0004	36.934	<0.001	0.017	0.041	<0.001	<0.001	<0.001	<0.001	0.198	0.124	<0.001	32.430	<0.001	<0.001	<0.001	<0.001	0.331

YMC005_00195-0005	39.289	<0.001	<0.001	<0.001	<0.001	0.331	<0.001	<0.001	0.496	0.182	0.041	39.752	<0.001	<0.001	<0.001	<0.001	0.603
YMC006_00195-0006	38.603	<0.001	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	0.223	0.273	<0.001	36.405	<0.001	<0.001	<0.001	0.017	0.455
YMC007_00195-0007	39.463	<0.001	0.017	<0.001	<0.001	<0.001	<0.001	<0.001	0.413	0.240	<0.001	38.223	<0.001	<0.001	<0.001	<0.001	0.298
YMC008_00195-0008	45.479	<0.001	<0.001	0.033	<0.001	<0.001	<0.001	<0.001	0.322	0.223	<0.001	39.926	<0.001	<0.001	<0.001	<0.001	0.413
YMC009_00195-0009	38.545	<0.001	0.017	0.074	<0.001	0.207	<0.001	<0.001	0.430	0.289	0.025	42.322	<0.001	<0.001	<0.001	<0.001	0.388
YMC010_00195-0010	41.298	<0.001	0.050	<0.001	<0.001	0.050	<0.001	<0.001	0.496	0.248	<0.001	31.537	<0.001	<0.001	<0.001	<0.001	0.364
YMC011_00195-0011	31.950	<0.001	0.017	<0.001	<0.001	<0.001	<0.001	<0.001	0.388	0.331	<0.001	37.397	<0.001	<0.001	<0.001	0.008	0.281
YMC012_00195-0012	30.033	<0.001	0.017	0.066	<0.001	<0.001	<0.001	<0.001	0.793	1.612	<0.001	48.752	<0.001	<0.001	<0.001	<0.001	0.372
YMC013_00195-0013	38.661	<0.001	<0.001	1.017	<0.001	<0.001	<0.001	<0.001	0.893	0.752	<0.001	39.140	<0.001	<0.001	<0.001	<0.001	0.545
YMC014_00195-0014	37.479	<0.001	0.008	0.190	<0.001	0.529	<0.001	<0.001	0.496	0.512	0.033	30.769	<0.001	<0.001	<0.001	<0.001	0.744
YMC015_00195-0015	44.264	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	0.686	0.331	<0.001	32.190	<0.001	<0.001	<0.001	<0.001	0.620
YMC016_00195-0016	42.496	<0.001	0.017	0.215	<0.001	<0.001	<0.001	0.025	0.645	0.463	<0.001	42.661	<0.001	0.041	<0.001	<0.001	0.388
YMC017_00195-0017	43.347	<0.001	0.008	0.050	0.017	<0.001	0.008	0.025	1.124	0.207	<0.001	38.893	0.008	0.050	<0.001	<0.001	0.570
YMC018_00195-0018	32.793	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.066	0.281	0.413	<0.001	44.463	0.017	0.132	<0.001	<0.001	0.479
YMC019_00195-0019	33.331	0.017	0.025	<0.001	0.025	<0.001	0.017	0.058	0.413	0.355	<0.001	44.587	0.033	0.455	<0.001	<0.001	0.355
YMC020_00195-0020	29.207	<0.001	0.025	<0.001	<0.001	<0.001	<0.001	0.025	0.264	0.281	<0.001	41.793	<0.001	0.058	0.008	<0.001	0.339
YMC021_00195-0021	28.818	<0.001	0.017	0.331	<0.001	<0.001	<0.001	<0.001	0.347	0.281	<0.001	49.107	<0.001	<0.001	<0.001	<0.001	0.347
YMC022_00195-0022	30.628	0.025	0.017	<0.001	0.008	<0.001	0.008	0.099	0.413	0.562	<0.001	48.091	0.025	0.124	<0.001	0.008	0.339
YMC023_00195-0023	40.959	0.033	0.017	0.264	<0.001	<0.001	<0.001	0.140	0.372	0.562	<0.001	43.934	<0.001	0.372	<0.001	<0.001	0.281
YMC024_00195-0024	41.050	0.017	0.025	0.008	<0.001	<0.001	<0.001	0.182	0.669	0.479	<0.001	40.190	0.033	0.331	<0.001	0.017	0.736
YMC025RPT_00195-0036	38.851	0.025	0.008	<0.001	<0.001	0.248	<0.001	0.223	1.066	0.455	0.008	42.355	0.041	0.496	0.008	<0.001	0.413
YMC025_00195-0025	38.826	0.050	0.041	<0.001	<0.001	<0.001	<0.001	0.165	0.777	0.405	<0.001	40.884	0.041	0.322	<0.001	<0.001	0.397
YMC026_00195-0026	45.595	0.008	0.025	0.083	<0.001	<0.001	<0.001	0.008	0.678	0.248	<0.001	39.826	0.008	0.107	<0.001	<0.001	0.529
YMC027_00195-0027	42.314	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	0.017	0.529	0.198	<0.001	44.893	<0.001	0.058	0.017	<0.001	0.248
YMC028_00195-0028	44.273	0.008	0.008	<0.001	<0.001	0.116	<0.001	0.050	0.512	0.289	0.008	36.025	0.041	0.198	<0.001	<0.001	0.463
YMC029_00195-0029	44.736	0.041	<0.001	0.066	<0.001	<0.001	<0.001	0.140	0.512	0.620	<0.001	37.744	0.025	0.273	0.058	<0.001	0.521
YMC030_00195-0030	35.967	0.033	0.017	<0.001	<0.001	<0.001	<0.001	0.033	0.289	0.372	<0.001	41.174	<0.001	0.074	<0.001	0.008	0.314
YMC031_00195-0031	37.975	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	0.182	0.306	<0.001	42.256	<0.001	0.033	<0.001	0.017	0.124
YMC032_00195-0032	36.248	0.033	0.008	0.041	<0.001	<0.001	<0.001	0.074	0.397	0.289	<0.001	42.273	0.017	0.306	<0.001	0.017	0.413

YMC033_00195-0033	41.430	<0.001	0.050	<0.001	0.107	<0.001	0.008	<0.001	0.744	0.397	<0.001	45.157	<0.001	<0.001	0.017	<0.001	0.405
YMC034_00195-0034	33.091	<0.001	0.050	0.124	1.364	<0.001	0.207	<0.001	0.479	0.405	<0.001	52.711	0.008	0.008	0.050	<0.001	0.223

Appendix 2

JORC Code, 2012 Edition (Table 1) – Sumo Niobium Heavy Metal Concentrate (HMC)

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i> <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> <i>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</i>	- Robust and coherent Nb soil anomaly extending over 2.6 km in a NNW-SSE orientation, over 1 km wide and lies between two alluvial systems. - Follow-up sampling undertaken for mineral identification (eg columbite, Nb oxides etc) - Samples were scooped from 5 to 25 cm depth. - Collected samples were then dry-sieved at the sample site to collect ~250g of 1-2mm fraction.
Drilling techniques	<i>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is</i>	Not applicable: No drilling undertaken.

Criteria	JORC Code explanation	Commentary
	<i>oriented and if so, by what method, etc).</i>	
Drill sample recovery	• <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i> • <i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i> • <i>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i>	• Not applicable: No drilling undertaken.
Logging	• <i>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</i> • <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i> • <i>The total length and percentage of the relevant intersections logged.</i>	• A basic description of the soil sample (e.g., Colluvium) was recorded by field staff.
Sub-sampling techniques and sample preparation	• <i>If core, whether cut or sawn and whether quarter, half or all core taken.</i> • <i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i> • <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i> • <i>Quality control procedures adopted for all sub-sampling stages to maximise representativity of samples.</i> • <i>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</i> • <i>Whether sample sizes are appropriate to the</i>	• No duplicate samples were collected in the field. • Dispatch to Diamantina Laboratory for HMC preparation carried out by Diamantina Laboratory in Perth, WA.

Criteria	JORC Code explanation	Commentary
	<i>grain size of the material being sampled.</i>	
Quality of assay data and laboratory tests	- The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. - For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. - Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	- HMC analysis carried out by Portable Spectral Services in Perth, WA. - QA/QC procedure: ~2g of each sample was washed for a minimum of 48 hours in ~10% oxalic solution, to remove surface Al-Si-Fe oxide coating. Trace minerals remain consistent and the reported abundance is unaffected by acid washing.
Verification of sampling and assaying	- The verification of significant intersections by either independent or alternative company personnel. - The use of twinned holes. - Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. - Discuss any adjustment to assay data.	Sampling and assaying was reviewed internally by GTE geologists and externally by <i>Geochemical Services Pty Ltd</i>. The data is deemed to be of good quality.
Location of data points	- Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. - Specification of the grid system used. - Quality and adequacy of topographic control.	- Hand-held GPS units were utilised to mark data location points (accuracy +/- 5m). GTE has utilised publicly available SRTM data to assign RLs. - The grid system used was GDA94 MGA zone 50.
Data spacing and distribution	- Data spacing for reporting of Exploration Results. - Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. - Whether sample compositing has been applied.	- Samples were collected 100-200m apart, along three 1100-1800m long lines (shown in map, Appendix 1) - Results reported herein are of exploration nature, designed to determine target zones for the next stages of exploration activities. Results are not appropriate for Resource or Reserve reporting. - No sample compositing was undertaken.

Criteria	JORC Code explanation	Commentary
<i>Orientation of data in relation to geological structure</i>	<i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> <i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</i>	- Samples were collected on sections, across Nb soil anomalies. - No known bias was introduced.
<i>Sample security</i>	<i>The measures taken to ensure sample security.</i>	- Samples were placed in paper bags which were then tied. - Samples were delivered by field staff to the laboratory.
<i>Audits or reviews</i>	<i>The results of any audits or reviews of sampling techniques and data.</i>	Assay data has been reviewed internally by GTE geologists and externally by <i>Geochemical Services Pty Ltd</i>. The data is deemed to be of good quality.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary																												
Mineral tenement and land tenure status	- Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. - The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	<table><tr><td>Tenement No:</td><td>E 51/2033</td></tr><tr><td>Tenement Type:</td><td>Exploration License, Western Australia</td></tr><tr><td>Status:</td><td>Granted – 24/09/2021</td></tr><tr><td>Location:</td><td>Wiluna District</td></tr><tr><td>Size (km2)</td><td>176</td></tr><tr><td>Ownership:</td><td>Great Western Exploration Limited (100%)</td></tr><tr><td>Native Title:</td><td>1. Yugunga Nya People #2 (WC2022/003): Determined (89%). Access agreement in place. 2. Yugunga-Nya Part A (WCD2021/008) – Determined (11%). Access agreement in place. 3. Gingirana #4 (WC2020/003) – Claim (89%). Competing claim with the YN#2.</td></tr><tr><td>Other Agreements:</td><td>None</td></tr><tr><td>Non-State Royalties:</td><td>None</td></tr><tr><td>Other Encumbrances:</td><td>None</td></tr><tr><td>Historical Sites:</td><td>None</td></tr><tr><td>National Parks:</td><td>None</td></tr><tr><td>Environment:</td><td>None</td></tr><tr><td>Tenement Security:</td><td>In good standing, no known impediments.</td></tr></table>	Tenement No:	E 51/2033	Tenement Type:	Exploration License, Western Australia	Status:	Granted – 24/09/2021	Location:	Wiluna District	Size (km2)	176	Ownership:	Great Western Exploration Limited (100%)	Native Title:	1. Yugunga Nya People #2 (WC2022/003): Determined (89%). Access agreement in place. 2. Yugunga-Nya Part A (WCD2021/008) – Determined (11%). Access agreement in place. 3. Gingirana #4 (WC2020/003) – Claim (89%). Competing claim with the YN#2.	Other Agreements:	None	Non-State Royalties:	None	Other Encumbrances:	None	Historical Sites:	None	National Parks:	None	Environment:	None	Tenement Security:	In good standing, no known impediments.
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Criteria	JORC Code explanation	Commentary
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Rio Tinto: - Exploration for nickel sulphides. - Geophysical surveys and RC drilling completed (Wamex: A64750). Xstrata Nickel (nee Jubilee Mines / Sir Samuel Mines): - Targeting mafic-ultramafic intrusions associated with Ni-Cu-PGEs. - Lag sampling, soil sampling and ground geophysical surveys completed (Wamex: A76325, A80197, A85331, A85331 and A89209).
Geology	Deposit type, geological setting and style of mineralisation.	- The proposed deposit model is a carbonatite intrusive hosting Nb-REEs mineralisation. A Nb-enriched pegmatite is also possible. - The Sumo Nb target is located within the Yerrida Basin.
Drill hole Information	- A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: - easting and northing of the drill hole collar - elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar - dip and azimuth of the hole - down hole length and interception depth - hole length. - If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	Not applicable, no drilling undertaken.

Criteria	JORC Code explanation	Commentary
Data aggregation methods	<i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</i> <i>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</i> <i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	- No weighted averaging techniques completed. - No data aggregation conducted. - Metal equivalents not utilised/reported.
Relationship between mineralisation widths and intercept lengths	<i>These relationships are particularly important in the reporting of Exploration Results.</i> <i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i> <i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</i>	Not applicable for lag geochemistry results or ground gravity surveys.
Diagrams	<i>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</i>	Sample locations are shown in map in Appendix 1.
Balanced reporting	<i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</i>	Individual assays not reported, results have been summarised within the Appendix 1 statistics tables.
Other substantive exploration data	<i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations;</i>	No other substantive exploration data available.

Criteria	JORC Code explanation	Commentary
	<i>geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	
Further work	<i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i>	The next exploration stage will potentially be an air core drilling campaign.