

Thursday, 14 December 2023

Interpreted + 5 km Long Mineralised Structure at Redbank West - Mountain Home Prospect

- Mineralisation in rock chips, > 1% Cu and up to 1.31 g/t Au, identified over a 150 metres length of strike.
- Copper values previously reported by NTM include 32.73%, 25.20%, 15.69% and 9.81%.
- Satellite based geological interpretation indicates mineralisation is associated with a structure mapped out over a strike in excess of 5 kilometres long.
- Multiple structures, of +10 kilometres strike, similar to the above trend also identified from satellite imagery.
- Broad spaced (approximate 2-kilometre x 500 metre) soil geochemical traverses identify other areas with low tenor copper anomalism.
- Mineralisation in rock chips associated with malachite within a quartz rich sometimes brecciated structure.

NT Minerals Limited (ASX: NTM) ('NT Minerals', 'NTM' or 'the Company') is pleased to provide a summary of a geological review completed on the Mountain Home prospect, located in the Redbank West group of tenements. NTM previously reported results of a helicopter supported reconnaissance sampling program over the Mountain Home Prospect area (refer ASX:RCP 3 March 2022), along a 150m trend of surface workings/pittings. Results for ten rock chip samples included assays of **32.73% Cu, 25.20% Cu, 15.69% Cu and 9.81% Cu with associated gold values up to 1.31 g/t Au**. Examples of the rock chip samples are shown in Figure 1 – 3.

Recent satellite based geological interpretation suggests this mineralisation is associated with a structure which can be traced in excess of five kilometres along strike with multiple parallel similar style features.

NTM's Chairman, Mal James comments *"This review by the exploration team highlights the potential of the Company's projects within the McArthur Basin, and the potential for the McDermott Formation to host high grade copper and gold mineralisation within a structural setting. This work has created a new exploration space and forms part of a larger review of the historical data that will provide the basis for formulating a targeted approach to drilling in 2024. The targeted drilling will focus on generating a more robust resource contiguous with current identified resources"*.



Figure 1:

Mountain Home Prospect - Rock Chip Sample 21RRX0179, 32.73% Cu and 0.16 g/t Au.

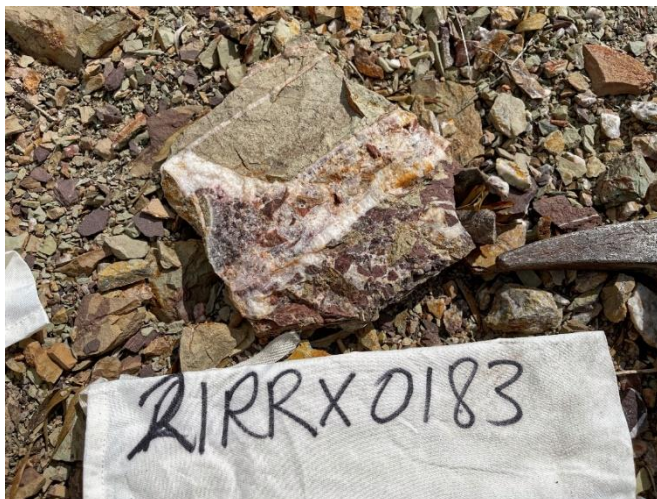


Figure 2:

Mountain Home Prospect - Rock Chip Sample 21RRX0183, Quartz Breccia, 0.66% Cu and 0.07 g/t Au.



Figure 3:

Mountain Home Prospect - Rock Chip Sample 21RRX0188, 9.81% Cu and 1.31 g/t Au.

Observations

The Redbank West - Mountain Home Prospect is located on tenement EL32470 within the Redbank West group of tenements, approximately 116 kilometres west of Redbank.

The tenement is centred over a 33 kilometre long x 5 kilometre wide, NNW trending, fault bounded inlier of lower McArthur Basin Stratigraphy, the Paleoproterozoic aged units of the Tawallah Group. At the Mountain Home Prospect, lithologies comprise alternating bands of shallow marine dolomite, quartz sandstones and lesser dolomitic siltstones, sandstones and cherty stromatolitic dolostones of the McDermott Formation. The McDermott Formation is stratigraphically lower than the Gold Creek Volcanics which hosts the breccia pipe mineralisation at Redbank (refer Figure 4).

Within this fault bounded inlier, there is evidence the lithological units have been subjected to structural preparation including folding and faulting sub-parallel to the overall trend of the inlier. Importantly, the trend of surface workings and pittings with strong copper results and associated gold is coincident with one of these interpreted fault trends.

Mineralisation identified at Mountain Home is described as comprising Malachite with trace Chalcocite hosted within a series of narrow (10 -30 cm wide), steeply dipping in echelon quartz veins within a north-northwest trending shear.

Reconnaissance work undertaken by NTM during its 2021 field season included the rock chip sampling reported above with high grade surficial occurrences of copper and associated gold along the 150 metre trend of workings, refer Figure 5 and Attachment 1; and broad spaced soil sampling (2km x 500m) along seven traverses, recording numerous single point anomalies (>100 ppm Cu), refer Figure 5 and Attachment 2.

Key Points

NTM is encouraged by the review of the Mountain Home prospect, in particular several key criteria which are not readily observed or documented within the McArthur Basin, these include:

- Mineralisation associated with mappable structure, in particular the documented steep dipping shear hosted mineralisation clearly cross-cutting stratigraphy.
- Occurrence of gold associated with high grade copper mineralisation.
- High grade copper-gold mineralisation identified from rock chip sampling over a 150 metre strike length coincides with a +5 km long structure interpreted from satellite imagery (white dashed line in Figure 5).
- Multiple similar oriented structures can be interpreted from satellite imagery (black dashed lines in Figure 5) with up to + 10 kilometres of strike.
- High levels of the pathfinder element Bismuth (Bi), maximum value of 804 ppm in rock chip sample 21RRX0179 (refer Attachment 1). NTM considers this significantly encouraging as bismuth is commonly found associated with gold mineralisation systems although not at these high levels.

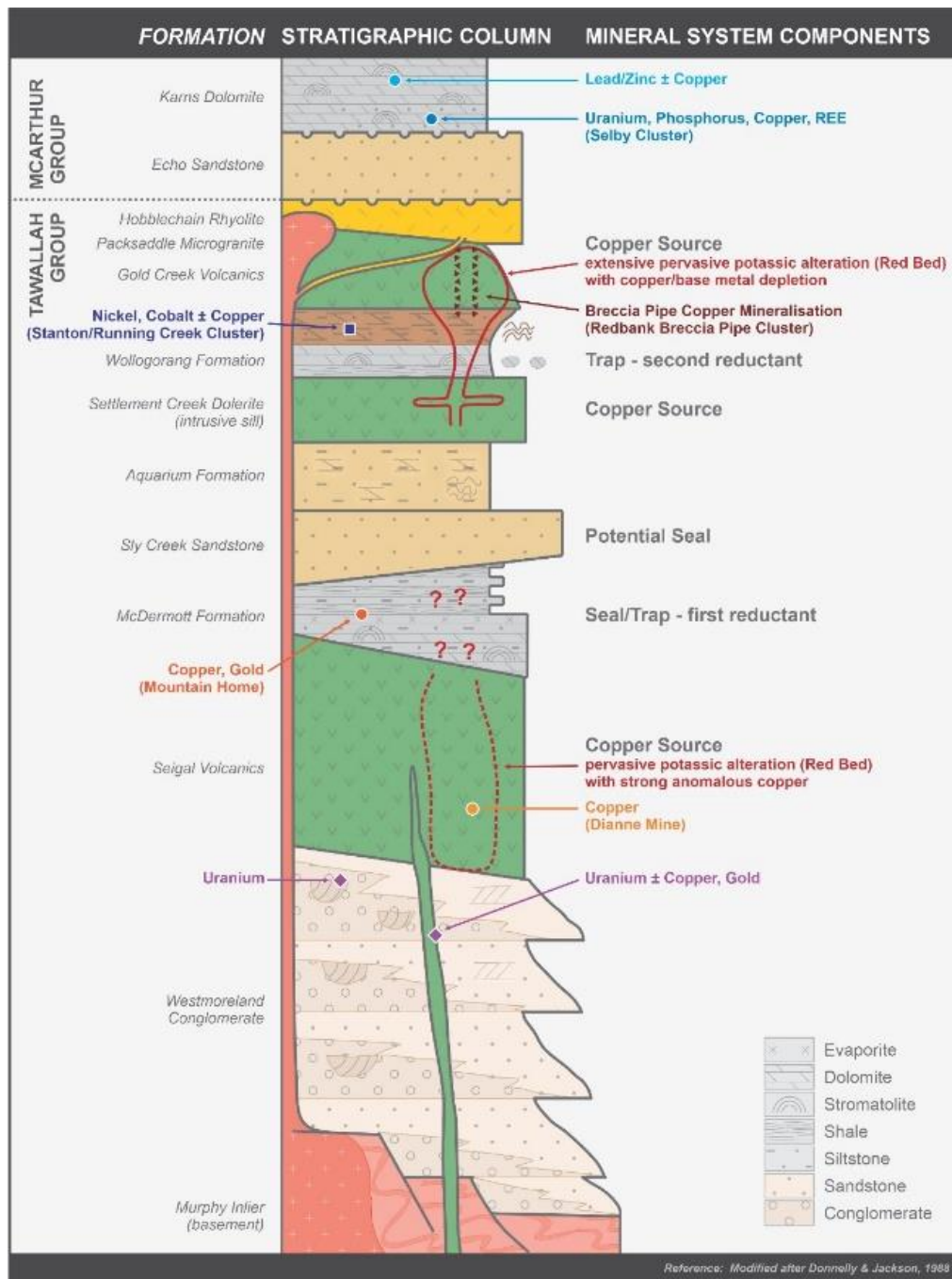


Figure 4:
Lower McArthur Basin Stratigraphic Column.

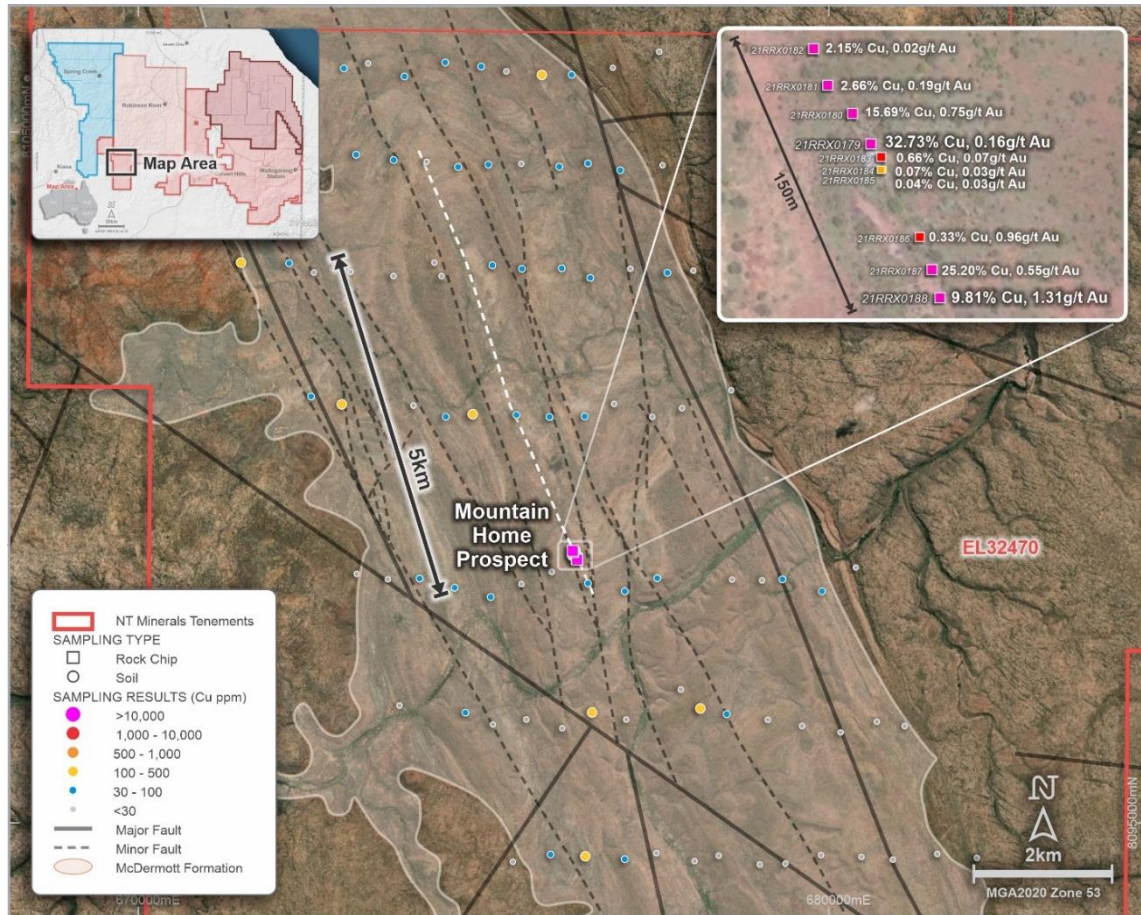


Figure 5:

Mountain Home Prospect, with rock chip results and soil geochemical traverses.

Next Steps:

- Plan a field based exploration program to be undertaken in the 2024 field season. Activities will include detailed sampling along strike of the high grade rock chip sampling and investigation of the multiple parallel structures.

-ENDS-

For further information please contact:

Deane Russell
Ph: +61 419 444 112

This announcement was approved and authorised for issue by the Board of NT Minerals.

Competent Person's Statement

The information provided in this announcement is based on, and fairly represents, information compiled by Mr Greg Wilson, a Member of the Australian Institute of Mining and Metallurgy. Mr Wilson is a Consulting Geologist providing services to NT Minerals Limited. He has sufficient experience, which is relevant to the style of mineralisation and type of deposits under consideration, and to the activity 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 Wilson consents to the inclusion of the matters based on his information in the form and context in which it appears.

Disclaimer

This announcement contains certain forward-looking statements. Forward looking statements include but are not limited to statements concerning NT Minerals Limited's ('NTM's) planned exploration program and other statements that are not historical facts including forecasts, production levels and rates, costs, prices, future performance or potential growth of NTM, industry growth or other trend projections. When used in this announcement, the words such as "could", "plan", "estimate", "expect", "intend", "may", "potential", "should", and similar expressions are forward-looking statements. Such statements are not a guarantee of future performance and involve unknown risks and uncertainties, as well as other factors which are beyond the control of NTM. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors. Nothing in this announcement should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities.

ATTACHMENT 1:

Mountain Home - Rock Chip Location Point and Analysis

Sample_ID	East	North	Cu (%)	Au (g/t)	Bi (ppm)
21RRX0179	676314	8098888	32.73	0.161	804
21RRX0180	676305	8098904	15.69	0.748	583
21RRX0181	676292	8098918	2.66	0.191	144
21RRX0182	676285	8098937	2.15	0.019	53
21RRX0183	676320	8098882	0.66	0.073	57
21RRX0184	676320	8098875	0.07	0.029	<0.01
21RRX0185	676321	8098875	0.04	0.026	<0.01
21RRX0186	676340	8098840	0.33	0.958	122
21RRX0187	676346	8098824	25.2	0.55	658
21RRX0188	676350	8098809	9.81	1.312	59

ATTACHMENT 2:

Mountain Home - Soil Sample Location Point and Analysis

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0100	688969	8099956	5.3	0.12	1.16	0.39	0.32
21RSX0101	688535	8099985	6.2	0.20	0.97	0.41	0.11
21RSX0102	687955	8099922	6.0	0.25	1.39	0.42	0.09
21RSX0103	687402	8099961	4.0	0.15	1.01	0.35	0.08
21RSX0104	686975	8100000	4.8	0.13	1.22	0.78	0.15
21RSX0105	686426	8099920	4.1	0.1	0.93	0.55	0.12
21RSX0106	685975	8099911	3.7	0.06	1.14	0.37	0.06
21RSX0107	685540	8099931	5.6	0.23	1.17	0.94	0.25
21RSX0108	684912	8100039	3.3	0.08	1.02	0.47	0.34
21RSX0109	684459	8099991	3.3	0.14	0.81	0.81	0.45
21RSX0110	682136	8094492	2.9	0.09	0.85	0.32	0.21
21RSX0111	681564	8094551	3.2	0.1	0.77	0.41	0.15
21RSX0112	680920	8094469	18.2	0.17	1.55	0.70	0.34
21RSX0113	680465	8094508	6.4	0.13	1.20	0.82	0.60
21RSX0114	679882	8094534	16.4	0.37	1.63	0.79	0.58
21RSX0115	679366	8094412	13.4	0.35	1.44	0.89	0.35
21RSX0116	678994	8094398	25.4	0.33	0.53	1.03	0.77

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0117	678399	8094526	9.4	0.18	0.90	0.76	0.39
21RSX0118	678050	8094449	12.3	0.18	1.37	0.72	0.38
21RSX0119	677496	8094562	10.6	0.32	0.48	1.19	0.60
21RSX0121	677040	8094476	56.7	0.62	0.59	0.96	0.67
21RSX0122	676470	8094515	118.9	0.99	1.01	0.84	0.76
21RSX0123	675965	8094543	69.9	1.22	0.92	0.96	0.68
21RSX0124	675417	8094438	2.7	0.11	0.95	0.37	0.19
21RSX0126	673776	8096701	11.4	0.22	1.15	0.93	0.46
21RSX0127	674731	8096595	49.6	2.18	0.77	1.23	1.13
21RSX0128	675129	8096426	27.5	0.36	0.81	0.94	1.29
21RSX0129	675611	8096498	22.2	0.39	1.05	1.37	0.64
21RSX0130	676132	8096371	8.0	0.15	1.23	0.56	0.26
21RSX0131	676566	8096597	197.4	1.77	1.06	1.07	0.79
21RSX0132	677059	8096497	14.6	0.16	1.27	0.76	0.25
21RSX0133	677850	8096932	11.5	0.37	1.22	1.84	0.65
21RSX0134	678136	8096654	186	1.06	3.51	1.35	0.60
21RSX0135	678517	8096575	49.7	0.43	3.25	1.09	0.57
21RSX0136	679111	8096493	4.9	0.07	1.11	0.59	0.16
21RSX0137	679607	8096404	6.9	0.17	1.18	0.85	0.56
21RSX0138	680164	8096311	20.0	0.36	1.37	0.70	0.37
21RSX0139	680688	8096464	5.3	0.16	1.16	0.75	0.28
21RSX0140	681093	8096402	9.8	0.12	1.60	0.48	0.12
21RSX0141	680384	8098698	2.4	0.16	0.82	0.68	0.43
21RSX0142	679895	8098355	34.8	0.41	0.62	1.01	1.04
21RSX0143	673157	8098605	2.5	0.11	0.93	0.46	0.14
21RSX0144	673607	8098526	29.7	0.68	1.11	2.54	0.84
21RSX0145	674069	8098537	32.6	0.80	0.77	1.37	1.25
21RSX0146	674576	8098404	38.3	0.49	0.66	1.14	1.13
21RSX0147	675099	8098269	50.0	0.46	0.61	1.11	0.68
21RSX0148	675540	8098457	8.4	0.20	0.61	1.32	0.64
21RSX0149	675983	8098635	13.8	0.64	1.15	1.30	0.69
21RSX0151	676506	8098468	60.0	0.84	1.18	0.96	0.78
21RSX0152	677041	8098353	77.9	0.92	1.23	1.21	0.69
21RSX0153	677509	8098542	83.2	0.94	1.22	1.16	0.74
21RSX0154	678592	8098523	5.0	0.20	0.95	0.91	0.44
21RSX0155	679026	8098512	8.4	0.20	0.84	0.59	0.18
21RSX0156	679322	8098527	76.1	0.95	0.86	0.81	0.53
21RSX0157	678581	8101263	6.3	0.51	1.06	0.79	0.20

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0158	677868	8101004	10.7	0.23	0.92	0.71	0.28
21RSX0159	677438	8100877	16.2	0.77	1.52	2.23	0.64
21RSX0160	676883	8101066	20.6	0.25	1.19	0.87	0.46
21RSX0161	676459	8100884	31	0.25	0.83	0.91	0.59
21RSX0162	675950	8100877	35.7	0.43	0.74	0.89	0.61
21RSX0163	675472	8100905	65.4	0.53	0.77	0.82	0.57
21RSX0164	674838	8100914	177.5	0.94	0.77	1.09	0.94
21RSX0165	674447	8100880	55.0	0.63	1.03	0.96	0.72
21RSX0166	673979	8101041	20.6	0.50	0.95	0.89	0.66
21RSX0167	673535	8101026	19.8	0.53	2.68	1.81	0.69
21RSX0168	672942	8101057	100.7	0.90	0.85	2.13	0.82
21RSX0169	672497	8101173	31.3	0.56	0.83	1.03	0.67
21RSX0171	671483	8103108	112.1	1.66	1.24	1.88	0.85
21RSX0172	672180	8103100	80.0	1.29	0.55	1.24	0.87
21RSX0173	672536	8102967	6.8	0.35	1.87	2.51	0.66
21RSX0174	673068	8102977	13.9	0.34	1.18	1.52	0.46
21RSX0176	673689	8102916	23.1	0.42	0.92	1.19	0.80
21RSX0177	674280	8103111	10.9	0.12	0.92	0.57	0.23
21RSX0178	674386	8102914	11.8	0.12	1.20	0.50	0.16
21RSX0179	675122	8103071	32.1	0.71	1.20	0.96	0.76
21RSX0180	675552	8103020	32.5	0.41	1.24	0.84	0.51
21RSX0181	676126	8103028	40.9	1.83	2.41	0.93	1.01
21RSX0182	676541	8102888	37.6	1.33	0.97	0.88	0.91
21RSX0183	677120	8103022	27.4	0.57	1.00	0.81	0.59
21RSX0184	677657	8102963	31.3	0.75	0.61	1.09	2.60
21RSX0185	678032	8102995	11.1	0.74	0.62	1.12	0.16
21RSX0186	677584	8104518	3.8	0.18	1.14	0.40	0.16
21RSX0187	676974	8104446	56.3	0.57	0.65	0.82	0.76
21RSX0188	670494	8104574	6.8	0.09	0.53	0.41	0.08
21RSX0189	670952	8104544	6.6	0.12	1.28	0.27	0.17
21RSX0190	671709	8104515	4.6	0.08	0.87	0.18	0.06
21RSX0191	672269	8104693	6.2	0.09	0.39	0.29	0.08
21RSX0192	672548	8104677	7.1	0.37	1.78	2.34	0.68
21RSX0193	673149	8104671	46.4	0.32	0.72	0.89	0.77
21RSX0194	673693	8104595	79.8	0.54	0.88	0.91	0.62
21RSX0195	674169	8104570	11.1	0.34	0.91	0.97	0.67
21RSX0196	674627	8104494	61.3	1.08	1.08	0.92	0.70
21RSX0197	675065	8104528	44.3	0.41	0.67	0.85	0.46

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0198	675539	8104541	16.5	0.45	1.87	1.00	0.69
21RSX0199	676091	8104498	83.1	0.86	0.86	0.85	0.85
21RSX0201	676508	8104544	49.1	1.75	1.13	1.02	0.77
21RSX0202	677536	8106163	2.9	0.10	0.62	0.32	0.24
21RSX0203	676866	8105930	4.1	0.16	0.47	0.45	0.23
21RSX0204	676270	8105827	52.4	1.15	1.19	1.88	2.63
21RSX0205	675840	8105825	118.8	2.03	1.16	0.90	0.89
21RSX0206	675323	8105878	23.4	1.26	1.07	1.25	0.94
21RSX0207	674959	8105947	45.6	0.65	0.70	1.19	1.56
21RSX0208	674441	8106006	42.5	0.47	0.95	1.09	1.15
21RSX0209	673849	8105804	37.5	1.12	0.93	1.45	1.05
21RSX0210	673322	8105993	19.6	0.31	0.82	0.73	1.18
21RSX0211	672970	8105921	30.7	0.46	0.38	1.04	1.34
21RSX0212	672209	8105914	30.3	0.45	0.70	1.11	1.68
21RSX0213	672013	8105815	9.1	0.31	0.98	0.65	0.47
21RSX0214	671428	8106109	67.4	0.53	1.47	1.17	1.41
21RSX0215	670978	8106006	42.7	0.51	0.89	1.44	0.51
21RSX0216	670367	8105944	33.5	0.83	1.98	2.44	0.82
21RSX0217	670008	8105961	22.3	0.46	1.55	1.06	0.37
21RSX0218	669343	8106175	5.0	0.07	0.40	0.29	0.06
21RSX0219	668388	8105776	3.2	0.11	1.08	0.25	0.08
21RSX0221	665965	8109010	2.7	0.09	0.70	0.25	0.10
21RSX0222	666505	8108995	4.5	0.32	0.51	0.46	0.12
21RSX0223	667100	8108983	3.9	0.17	1.16	0.59	0.14
21RSX0224	667553	8109048	3.5	0.13	0.78	0.53	0.14
21RSX0226	668032	8109068	7.3	0.12	0.53	0.70	0.16
21RSX0227	668617	8108993	4.2	0.16	1.12	0.59	0.12
21RSX0228	669045	8109006	63.4	0.59	1.00	0.40	0.10
21RSX0229	669594	8108971	4.6	0.11	0.41	0.30	0.10
21RSX0230	670019	8108941	5.0	0.23	1.02	1.01	0.23
21RSX0231	670045	8111079	5.3	0.14	1.17	0.66	0.14
21RSX0232	669640	8110965	4.9	0.08	0.35	0.25	0.09
21RSX0233	668849	8110860	5.9	0.23	1.41	0.89	0.19
21RSX0234	668380	8111029	3.3	0.12	0.97	0.62	0.12
21RSX0235	667971	8110951	4.3	0.10	0.41	0.61	0.10
21RSX0236	667420	8110998	4.5	0.13	1.16	0.82	0.28
21RSX0237	666993	8110955	4.8	0.12	0.76	0.48	0.14
21RSX0238	666338	8110917	3.9	0.10	0.34	0.45	0.24

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0239	665864	8110913	3.1	0.14	1.08	0.42	0.26
21RSX0240	665326	8110832	2.7	0.18	0.68	0.43	0.37
21RSX0241	670066	8112690	3.5	0.14	0.35	0.38	0.20
21RSX0242	669461	8112515	5.6	0.07	1.56	0.26	0.09
21RSX0243	669007	8112494	12.4	0.30	0.62	0.41	0.18
21RSX0244	668575	8112501	5.5	0.10	0.55	0.52	0.10
21RSX0245	667993	8112483	4.1	0.11	1.26	0.58	0.13
21RSX0246	667449	8112459	3.2	0.16	0.97	0.46	0.24
21RSX0247	666994	8112497	6.1	0.20	0.31	0.53	0.22
21RSX0248	666387	8112501	12.1	0.33	0.86	1.04	0.28
21RSX0249	666022	8112518	66.1	0.46	2.26	1.08	0.98
21RSX0251	665380	8112362	264.5	2.27	10.18	4.36	1.27
21RSX0252	664814	8112307	5.4	0.24	0.96	1.15	0.26
21RSX0253	660949	8114992	5.9	0.10	0.49	0.42	0.37
21RSX0254	661555	8115059	105.3	2.40	5.81	1.99	0.63
21RSX0255	662091	8114993	86.6	1.00	12.26	4.82	2.64
21RSX0256	662434	8114873	99.8	0.48	5.11	2.38	1.58
21RSX0257	663062	8115087	63.5	1.44	1.31	1.53	0.90
21RSX0258	663717	8115023	7.8	0.31	0.53	1.38	0.63
21RSX0259	663959	8114991	5.6	0.18	0.50	0.90	0.15
21RSX0260	664572	8115032	12.4	0.79	1.21	0.78	0.45
21RSX0261	665039	8115068	4.7	0.20	1.13	0.79	0.29
21RSX0262	665552	8114865	6.2	0.24	0.68	1.32	0.15
21RSX0263	666006	8115067	7.2	0.65	1.45	1.10	0.15
21RSX0264	666610	8115008	23.5	2.11	1.23	0.84	0.24
21RSX0265	667164	8115010	9.1	0.34	0.61	1.44	0.37
21RSX0266	667784	8115071	5.9	0.18	1.06	0.57	0.23
21RSX0267	667986	8114922	204.4	1.92	1.77	3.41	0.60
21RSX0268	668579	8114927	8.0	0.12	0.32	0.46	0.38
21RSX0269	669174	8115101	5.1	0.11	1.08	0.28	0.12
21RSX0271	669523	8114946	2.6	0.07	0.34	0.28	0.18
21RSX0272	670059	8115062	2.7	0.07	0.93	0.26	0.32
21RSX0273	670016	8117541	3.0	0.14	0.59	0.23	0.35
21RSX0274	669581	8117408	4.8	0.09	0.31	0.26	0.21
21RSX0276	668982	8117400	4.5	0.09	1.05	0.26	0.08
21RSX0277	668284	8117425	1.8	0.08	0.59	0.27	0.23
21RSX0278	668018	8117493	2.9	0.15	0.38	0.38	0.34
21RSX0279	667449	8117486	5.1	0.15	1.35	0.43	0.27

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0280	667010	8117471	3.4	0.11	0.77	0.60	0.26
21RSX0281	666454	8117400	3.8	0.14	0.56	0.87	0.16
21RSX0282	665974	8117420	2.9	0.12	0.82	0.48	0.45
21RSX0283	665385	8117466	3.1	0.15	1.66	0.86	0.22
21RSX0284	664814	8117384	3.6	0.11	0.41	0.63	0.25
21RSX0285	664465	8117376	5.0	0.15	1.24	0.81	0.31
21RSX0286	663957	8117473	3.3	0.17	0.65	0.64	0.26
21RSX0287	663351	8117802	10.6	0.54	1.28	1.05	0.27
21RSX0288	662909	8117472	46.4	0.44	2.12	1.64	0.71
21RSX0289	662696	8117487	22.4	0.22	1.52	0.56	0.44
21RSX0290	661891	8117439	10.9	0.33	0.84	0.64	0.25
21RSX0291	661460	8117425	12.5	0.46	1.01	0.98	0.38
21RSX0292	660903	8117411	4.8	0.16	1.01	0.75	0.39
21RSX0293	660354	8117352	5.3	0.20	1.47	1.21	0.23
21RSX0294	659886	8117369	3.6	0.15	1.15	0.44	0.31
21RSX0295	659305	8117474	2.9	0.16	1.22	0.36	0.31
21RSX0296	658689	8120527	2.2	0.08	0.81	0.34	0.15
21RSX0297	658982	8120508	4.5	0.15	1.60	1.24	0.11
21RSX0298	659571	8120478	34.5	0.19	1.11	0.61	0.28
21RSX0299	660060	8120387	118.1	1.02	2.37	1.21	0.71
21RSX0301	660472	8120487	6.7	0.32	1.27	1.22	0.26
21RSX0302	661013	8120355	5.8	0.21	1.04	0.97	0.25
21RSX0303	661696	8120293	13.6	0.25	1.08	0.76	0.32
21RSX0304	662377	8120523	3.9	0.15	0.98	0.78	0.43
21RSX0305	663082	8120576	3.5	0.08	1.37	0.70	0.29
21RSX0306	663508	8120374	3.3	0.07	1.10	0.89	0.07
21RSX0307	663910	8120267	4.5	0.08	1.69	0.51	0.09
21RSX0308	664509	8120372	3.6	0.15	1.32	0.91	0.25
21RSX0309	665010	8120540	2.4	0.08	0.84	0.28	0.14
21RSX0310	665856	8120801	2.0	0.08	0.88	0.25	0.43
21RSX0311	666127	8120710	2.8	0.09	1.14	0.30	0.27
21RSX0312	664512	8122558	3.2	0.11	0.77	0.26	0.37
21RSX0313	663860	8122522	2.5	0.09	1.06	0.26	0.24
21RSX0314	663472	8122555	2.3	0.11	0.82	0.46	0.30
21RSX0315	662952	8122387	2.7	0.10	0.97	0.69	0.30
21RSX0316	662485	8122527	2.4	0.08	0.84	0.56	0.19
21RSX0317	661912	8122485	4.8	0.09	1.48	0.65	0.15
21RSX0318	661408	8122621	3.3	0.08	0.82	0.47	0.16

Sample_ID	East	North	Cu (ppm)	Bi (ppm)	Mo (ppm)	Sb (ppm)	Tl (ppm)
21RSX0319	660828	8122560	5.1	0.11	0.78	0.52	0.29
21RSX0321	660347	8122481	4.9	0.15	1.01	0.73	0.37
21RSX0322	659965	8122602	4.9	0.19	0.93	0.67	0.24
21RSX0323	659439	8122496	5.7	0.17	0.99	0.88	0.29
21RSX0324	658886	8122432	11.2	0.42	2.47	1.49	0.83
21RSX0326	658376	8122517	5.4	0.19	1.18	0.57	0.36
21RSX0327	657885	8122498	6.5	0.42	1.04	1.06	0.36
21RSX0328	657440	8122529	2.7	0.14	1.09	0.69	0.41
21RSX0329	656966	8122487	2.8	0.10	0.63	0.38	0.33
21RSX0330	656295	8122499	1.9	0.06	0.68	0.35	0.21
21RSX0331	655841	8122387	2.8	0.08	0.73	0.36	0.23
21RSX0332	655427	8122446	1.9	0.07	0.55	0.30	0.19
21RSX0333	654892	8122766	2.4	0.06	0.99	0.29	0.09
21RSX0334	656649	8124584	2.4	0.14	1.06	0.58	0.29
21RSX0335	657117	8124586	3.1	0.16	1.22	1.08	0.39
21RSX0336	657641	8124665	3.3	0.12	1.17	0.77	0.25
21RSX0337	658099	8124573	4.1	0.14	1.49	0.85	0.38
21RSX0338	658657	8124597	2.4	0.11	0.99	0.80	0.37
21RSX0339	659218	8124509	3.1	0.09	1.19	0.57	0.16
21RSX0340	659674	8124330	3.0	0.11	0.96	0.79	0.40
21RSX0341	660136	8124417	7.7	0.19	1.07	1.07	0.28
21RSX0342	660432	8124419	5.5	0.09	1.10	0.59	0.22
21RSX0343	660997	8124462	4.7	0.13	0.78	0.73	0.31
21RSX0344	661641	8124488	4.0	0.12	0.82	0.78	0.23
21RSX0345	662323	8124651	9.9	0.09	1.02	0.32	0.19
21RSX0346	662649	8124565	3.6	0.12	0.84	0.20	0.11
21RSX0347	659879	8128404	5.6	0.09	0.75	0.41	0.05
21RSX0348	676326	8098841	8421.2	15.51	0.80	1.79	0.52
21RSX0349	676310	8098892	1352.1	14.83	1.58	1.63	0.43

JORC Code Table 1

SECTION 1 MOUNTAIN HOME PROSPECT

Greg Wilson, a Consulting Geologist to NT Minerals Ltd, compiled the information in Section 1 and Section 2 of the following JORC Table 1 and is the Competent Person for those sections. The following Table and Sections are provided to ensure compliance with the JORC Code (2012 edition) requirements for the reporting of Exploration Results.

Criteria	JORC Code explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (e.g. 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>	<u>Soil Sampling Traverses</u> Soil sampling was conducted on broad line traverses (~2 km x 500m) across the targeted McDermott Formation. Sampling procedure is to brush surface/organic material away, collect a dry sample from the base of a ~20cm hole to pass through a ~2mm sieve and obtain a 0.5-1kg sample for analysis. <u>Rock Chip Sampling</u> Rock chip samples were collected along the line of historical prospecting pits, with samples collected considered representative of the mineralisation/structure observed.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	<u>Soil Sampling Traverses</u> Soil samples are collected and logged via a Panasonic ToughBook recording a GPS location, and a photograph of the soil sample location using OCRIS software to record meta-data. <u>Rock Chip Sampling</u> Rock chip samples are collected and logged via a Panasonic ToughBook recording a GPS location, and a photograph of the rock chip sample location using OCRIS software to record meta-data.

Criteria	JORC Code explanation	Commentary
	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 (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.	Soil and Rock Chip Sampling – explanation not applicable.
	In cases where 'industry standard' work has been done this would be relatively simple (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.	Not Applicable, soil and rock chip results only.
Drilling techniques	Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	Not Applicable, soil and rock chip results only.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 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.	Not Applicable, soil and rock chip results only.
Logging	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. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total	Basic information was recorded for each soil sample collected including sample ID, location, grid, date, colour, type, moisture, sampler and comments. All logging was qualitative for geological data collection and

Criteria	JORC Code explanation	Commentary
	<i>length and percentage of the relevant intersections logged.</i>	quantitative for geochemical data.
Sub-sampling techniques and sample preparation	<i>If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 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. Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	Soil samples are collected dry. In rare instances when samples are wet, they are segregated to be dried and sieved in the laboratory before standard laboratory sample prep.
Quality of assay data and laboratory tests	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i> <i>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.</i> <i>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</i>	<u>Soil Sampling Traverses</u> Soil and rock chip samples were submitted to Intertek in Townsville for analysis. The assay method employed is considered appropriate for reconnaissance stage exploration. Soil samples were dried and pulverised (90% passing 75 microns). A 100g sample was split from the pulverised sample for a four acid (complete) digest and low-level analysis of a 48 element suite in Perth on the Argilent 8800 Quadrupole ICP-MS. Only elements of broad exploration interest are reported in the text. Rock chip samples were dried, crushed and pulverised (90% passing 75 microns). A 100g sample was split from the pulverised sample for a four acid (complete) digest and low-level analysis of a 32 element suite (Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Te, Ti, Tl, V, W, Y, Zn, Zr) in Perth on the Argilent 8800 Quadrupole ICP-MS.

Criteria	JORC Code explanation	Commentary
		Only elements of broad exploration interest are reported in the text. A total of 6% control samples were placed in the sampling stream for every 100 samples collected. Appropriate commercially sourced standards (2 per 100), blanks (2 per 100) and duplicates (2 per 100) were collected routinely. The soil sample size (<1kg) is regarded as appropriate for the nature and type of material sampled. All samples have been assayed to accepted industry standards at nationally certified laboratories. No studies have been undertaken to determine whether sample size was appropriate of the material sampled.
Verification of sampling and assaying	<i>The verification of significant intersections by either independent or alternative company personnel.</i> <i>The use of twinned holes.</i> <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i> <i>Discuss any adjustment to assay data.</i>	No independent verification of analyses was undertaken. Soil and rock chip samples are collected and primary data logged onto a Panasonic ToughBook, recording GPS location, and a photograph of the sample location using OCRIS software to record meta-data. All data is verified before loading to database.
Location of data points	<i>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.</i> <i>Specification of the grid system used.</i>	For soil sampling, the position is collected from a handheld GPS. Cross-checks against 50cm resolution satellite imagery and 15cm resolution airborne photogrammetry provides a good match. Samples are considered accurate to within 1 metre which is adequate for this stage of exploration.

Criteria	JORC Code explanation	Commentary
	<i>Quality and adequacy of topographic control.</i>	The database grid system is GDA2020 Zone53. Field data is converted where required.
Data spacing and distribution	<i>Data spacing for reporting of Exploration Results.</i> <i>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.</i> <i>Whether sample compositing has been applied.</i>	Soil Sampling – broad 2km spaced line traverses with samples collected ~500m along each traverse.
Orientation of data in relation to geological structure	<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>	Soil Sampling – broad line traverses in an east-west orientation across the targeted lithology.
Sample security	<i>The measures taken to ensure sample security.</i>	Soil and rock chip samples in numbered packets were dispatched to the laboratory sealed in polyweave bags tied with cable ties as soon as possible after collection. Chain of custody is assumed to have been maintained throughout the sampling and dispatch process, although not been strictly documented. Data is transferred from the SmarTEM24 receiver at the Redbank Project to the Company's server via MS Sharepoint.
Audits or reviews	<i>The results of any audits or reviews of sampling techniques and data.</i>	Soil Sampling – no external audit of sampling techniques and data.

SECTION 2: REDBANK PROJECT AND MOUNTAIN HOME PROSPECT

(Criteria listed in Section 1, and where relevant in Section 2, 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.	NTM owns 100% of the Redbank Project in the Northern Territory via its wholly owned subsidiary Redbank Operations Pty Ltd. The Redbank Project comprises the tenements in the Table below. Table: Redbank Tenement Summary <table><tr><th colspan="5">Redbank Operations Pty Ltd Tenements</th></tr><tr><th>No.</th><th>EL_ML</th><th>Area km²</th><th>Grant date</th><th>Expiry date</th></tr><tr><td>1</td><td>MLN634</td><td>0.1618</td><td>12-Mar-73</td><td>31-Dec-28</td></tr><tr><td>2</td><td>MLN635</td><td>0.1618</td><td>12-Mar-73</td><td>31-Dec-28</td></tr><tr><td>3</td><td>ERL94</td><td>19.05</td><td>10-Aug-89</td><td>9-Aug-24</td></tr><tr><td>4</td><td>EL31316</td><td>0.97</td><td>6-Feb-17</td><td>5-Feb-23</td></tr><tr><td>5</td><td>EL32715</td><td>715.79</td><td>18-Jun-21</td><td>17-Jun-23</td></tr><tr><td>6</td><td>EL24654</td><td>328.5</td><td>5-Dec-05</td><td>4-Dec-22</td></tr><tr><td>7</td><td>EL32323</td><td>820.51</td><td>10-Sep-20</td><td>9-Sep-26</td></tr><tr><td>8</td><td>EL32324</td><td>811.41</td><td>10-Sep-20</td><td>9-Sep-26</td></tr><tr><td>9</td><td>EL32325</td><td>704.85</td><td>10-Sep-20</td><td>9-Sep-26</td></tr><tr><td>10</td><td>EL31236</td><td>816.98</td><td>In Application</td><td></td></tr><tr><td>11</td><td>EL31237</td><td>621.67</td><td>In Application</td><td></td></tr></table>	Redbank Operations Pty Ltd Tenements					No.	EL_ML	Area km²	Grant date	Expiry date	1	MLN634	0.1618	12-Mar-73	31-Dec-28	2	MLN635	0.1618	12-Mar-73	31-Dec-28	3	ERL94	19.05	10-Aug-89	9-Aug-24	4	EL31316	0.97	6-Feb-17	5-Feb-23	5	EL32715	715.79	18-Jun-21	17-Jun-23	6	EL24654	328.5	5-Dec-05	4-Dec-22	7	EL32323	820.51	10-Sep-20	9-Sep-26	8	EL32324	811.41	10-Sep-20	9-Sep-26	9	EL32325	704.85	10-Sep-20	9-Sep-26	10	EL31236	816.98	In Application		11	EL31237	621.67	In Application	
Redbank Operations Pty Ltd Tenements																																																																			
No.	EL_ML	Area km²	Grant date	Expiry date																																																															
1	MLN634	0.1618	12-Mar-73	31-Dec-28																																																															
2	MLN635	0.1618	12-Mar-73	31-Dec-28																																																															
3	ERL94	19.05	10-Aug-89	9-Aug-24																																																															
4	EL31316	0.97	6-Feb-17	5-Feb-23																																																															
5	EL32715	715.79	18-Jun-21	17-Jun-23																																																															
6	EL24654	328.5	5-Dec-05	4-Dec-22																																																															
7	EL32323	820.51	10-Sep-20	9-Sep-26																																																															
8	EL32324	811.41	10-Sep-20	9-Sep-26																																																															
9	EL32325	704.85	10-Sep-20	9-Sep-26																																																															
10	EL31236	816.98	In Application																																																																
11	EL31237	621.67	In Application																																																																

Criteria	JORC Code explanation	Commentary				
		12	EL32460	811.91	In Application	
		13	EL32461	793.47	In Application	
		14	EL32462	779.64	In Application	
		15	EL32463	308.06	In Application	
		16	EL32807	26.62	2-May-22	1-May-28
		17	EL32873	219.67	28-Mar-22	27-Mar-28
		18	EL32464	706.23	30-Mar-21	29-Mar-27
		19	EL32465	784.86	30-Mar-21	29-Mar-27
		20	EL32466	778.31	30-Mar-21	29-Mar-27
		21	EL32467	797.48	30-Mar-21	29-Mar-27
		22	EL32468	745.90	24-May-21	23-May-27
		23	EL32469	788.73	30-Mar-21	29-Mar-27
		24	EL32470	574.37	30-Mar-21	29-Mar-27
		25	EL32471	229.57	30-Mar-21	29-Mar-27
			Total granted	9053.14		
			Total in application	4131.73		
			Total	13,184.87		
		The Redbank Project was purchased from Redbank Copper Pty Ltd, by Redbank Mines Pty Ltd in 2005 (see ASX announcement 31st Aug 2005). Redbank Mines Pty Ltd then changed its name to Redbank				

Criteria	JORC Code explanation	Commentary
		Copper Limited in 2009. The 2005 Sale Agreement dated 5 August 2005 verifies the transaction. All tenements are in good standing. On 10 June 2022 Redbank Copper Ltd changed its name to NT Minerals Ltd (ASX:NTM). Native title has not been granted on all the granted tenements. The Sandy Flat Mine Site/ processing facility is believed to be the source of pollution which affects the surrounding environment. The Northern Territory of Australia acknowledges that no action by Redbank has contributed to the pollution. To facilitate the Northern Territory of Australia access to the Site to carry out works to enable improved environmental outcomes for the mining site and its surrounds, Redbank entered into an agreement with the Northern Territory of Australia on the 29 June 2016, to surrender the mining leases. The mining leases were replaced by EL31316 granted on the 6 February 2017. Mountain Home Prospect is located on tenement EL32470 within the Redbank West group of tenements.
Exploration done by other parties	<i>Acknowledgment and appraisal of exploration by other parties.</i>	The area covered by EL32470 was mapped by BMN geologists during 1957-61 as part of their Calvert Hills 1:250,000 Sheet mapping program. Subsequent mapping by the BMR during 1972-1981, and by the NTGS during 1981-85, has been incorporated into the 1:250,000 Metallogenic Series 1989 edition of the Calvert Hills Sheet. Exploration across EL32470 and the surrounding areas has been limited due to the reported inaccessibility of the area. A significant exploration campaign was undertaken by Australian Geophysical Pty Ltd during the period 1966-68. Exploration targeted Proterozoic inliers identified by the regional mapping programs. Work undertaken included

Criteria	JORC Code explanation	Commentary
		stream sediment sampling programs, assaying for Cu, Pb, Zn, Co and Ni (results of these analyses were not reported to the NTGS), detailed mapping programs and ground IP surveys. The majority of this work was completed external to EL32470, with some work completed in the northern portion of EL32470. At the Mountain Home prospect area, geological mapping, soil sampling and two lines of ground IP were completed with anomalous copper in soils being detected immediately over the old workings (Report CR19670007). CRA Exploration Pty Ltd undertook helicopter-supported exploration during the period 1990-92. Exploration activities included stream sediment sampling (assaying for As, Bi, Cd, Co, Cr, Cu, Mn, Ni, Pb, P, V and Zn), gravel sampling (for microdiamonds and kimberlitic indicator minerals), rock chip sampling (assaying for Ag, As, Cu, Pb, Fe, Mn, Zn and Au) and soil sampling (assaying for Au, Ag, As, Cu, Pb, Fe, Mn, Zn, Bi, Cd, Co, Cr, Mo, Ni, P, Sb and V). The work undertaken at the Mountain Home Prospect replicated the earlier work by Australian Geophysical Pty Ltd.
Geology	<i>Deposit type, geological setting, and style of mineralisation.</i>	Mineralisation at Redbank is consistent with breccia pipe deposits. The Redbank mineralisation consists of at least 7 discrete mineralised pipe-shaped deposits, although more than 50 pipe-like intrusions have been identified in the district. Copper bearing breccia pipes of the Redbank district intrude an interbedded sequence of Paleoproterozoic-aged igneous and dolomitic sedimentary rocks which have undergone regional scale potassic alteration or metasomatism. Breccia pipes are steeply inclined and near cylindrical. The core of these pipes contains both autochthonous and allochthonous

Criteria	JORC Code explanation	Commentary
		breccias, with copper mineralisation confined to the breccia matrix. The Mountain Home and adjoining areas is dominated by fault bounded lithologies of lower McArthur Basin Stratigraphy (Paleoproterozoic aged units of the Tawallah Group) exposed as a series of inliers surrounded by younger (Cambrian Age) Bukalara Sandstone. The oldest stratigraphic unit of the Tawallah Group exposed at the Mountain Home Prospect is the McDermott Formation, which consists of alternating bands of shallow marine dolomite, quartz sandstones and lesser dolomitic siltstones, sandstones and cherty stromatolitic dolostones. Mineralisation at the Mountain Home Prospect is described as consisting of a series of narrow (10-30cm wide), steeply dipping en echelon quartz veins that strike north-northwest. Individual veins are up to 300m long and the total strike length of the vein system is approximately 1,000m.
Drill hole Information	<i>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:</i> • <i>easting and northing of the drill hole collar</i> • <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i> • <i>dip and azimuth of the hole</i> • <i>down hole length and interception depth</i> • <i>hole length.</i> <i>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.</i>	Information relating to the rock chip samples is provided in Attachment 1 and soil samples in Attachment 2.

Criteria	JORC Code explanation	Commentary
Data aggregation methods	<i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. 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>	Not Applicable.
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 (e.g. 'down hole length, true width not known').</i>	Not Applicable.
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>	Numerous diagrams are presented to provide as much context as possible to the location of the results discussed.
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 avoiding misleading reporting of Exploration Results.</i>	Not Applicable.
Other substantive exploration data	<i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; 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>	Not Applicable.

Criteria	JORC Code explanation	Commentary
Further work	<i>The nature and scale of planned further work (e.g. 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>	Re-analysis of soil sample pulps for Au and detailed soil sampling across identified structures.

END