Review of 2008 – 2011 Rock Chip Assays at Compass Creek

By Jim McGregor-Dawson, November 2011

Introduction

The total number of rock samples collected from the Compass Creek prospect has now reached 120. The number and geographic spread of these samples now allows us to start defining geochemical zones, and begin speculation as to what significance these zones may have for future exploration.

Three exploration target areas have been defined. These are: the Magnetic Anomaly, the Mavis Area, and the newly define target known as the Mountain Area. The new Mountain Area encompasses the breccia pipes of Kamas Cauldron and Jason's Peak, and the old Hewson tin mine.

The rock chip sampling over these three target areas show differing geochemical signatures for each area. These geochemical variations could be caused by a number of different factors such as: zoning within a single hydrothermal system; multiple hydrothermal systems with differing chemistry; effects caused by variation of depth to the buried granite; or the effect of different host rocks on the chemistry of the fluids. All of these are intriguing questions that will only be answered by drilling and more detailed geochemical and petrographic studies.

Conclusion

The discovery of the Mountain Area was a major revelation this field season. Here broad zones of alteration with many small quartz-gossan-breccia veins were found to occur over a large area (1x3 km). The assay results from rock samples in the Mountain Area returned highly anomalous arsenic and lead, along with moderately anomalous bismuth, antimony, tin, gold, silver and copper.

All three areas have geophysical anomalies that indicate the presence of significant sulphide mineralisation at depth. All three areas have large zones of hydrothermal alteration with related quartz-sulphide vein mineralisation. All three areas show pathfinder geochemistry that is consistent with known gold deposits in the Pine Creek Goldfield. All three areas are in structurally favourable settings such as the core of a plunging anticline and major NNW trending faults. And all appear to be underlain by granite at shallow depth. Therefore it is clear that all three areas are justifiable exploration targets for gold, tin and base-metals. Hence arrangements should be put in place for drilling during the 2012 dry season.

The following are brief summaries of the geochemical results from the three target areas and local sub-areas.

Magnetic Anomaly

The strong "Magnetic Anomaly" covers an area of about 1 km^2 of hilly terrane next to the granite contact on the Spundaily tenement. The magnetic anomaly is coincident with phyllic alteration and common bedding parallel quartz veinlets with 1-5% pyrite in veinlets and disseminated. Locally there are small breccia zones, and occasional fault/vein/gossan structures up to 1m wide. One large breccia-quartz-gossan vein up to 15 m wide occurs in the southern part of the Magnetic Anomaly, in the core of the north plunging anticline, near the granite contact. This is referred to as the "Gossan Vein", and is traceable for about 125m northward from the granite contact where it appears to "pinch out". However a strong magnetic linear coincides with this vein, and this magnetic linear extends a further 700 m to the north. So it is possible this vein continues at depth and along strike to the north. A total of six rock chip samples have been collected from the exposed Gossan Vein (Table 2).

Table 1: All 20 Samples in Magnetic Anomaly (excluding 3 un-mineralised granitic dykes)

Magnetic Anomaly		**Au ppm**	**Ag ppm**	**Cu ppm**	**Pb ppm**	**Zn ppm**	**As ppm**	**Bi ppm**	**Sb ppm**	**Sn ppm**
Assay Range	**From:**	-0.01	-0.5	26	14	5	12	-2	-5	-5
	To:	0.1	0.9	721	2950	212	3380	45	18	21
Average of 20 samples:		**0.02**	**-0.5**	**299**	**261**	**91**	**393**	**10**	**7**	**-5**

The average of all 20 samples from the Magnetic Anomaly shows weak copper, lead and arsenic anomalism, with very weak bismuth and antimony (Table 1). When the six Gossan Vein samples are averaged separately we see similar arsenic values but considerably higher copper and lead values, and slightly higher bismuth, antimony and gold values (Table 2). The averages for the remaining 14 samples from the Magnetic Anomaly show only weak anomalism for copper, arsenic and lead (Table 3). Note: in Table 3, the high copper value (721 ppm) comes from a 50m long quartz-gossan vein in the north part of magnetic anomaly.

What is apparent from sampling in the Magnetic Anomaly is that the samples from larger gossan veins (1 – 15m) are carrying significant copper, lead and arsenic with traces of bismuth, antimony and gold. In contrast the samples from altered sediment with thin quartz veinlets and 1-5% ex-sulphide casts are generally low for most elements. This implies that the larger vein structures are reflecting better mineralisation from depth (via leakage up the larger faults). In contrast, the disseminated mineralisation in the sediments is likely a broader outer shell.

Table 2: Gossan Vein Samples (6) (located in the south part of Magnetic Anomaly)

Gossan Vein		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	0.01	-0.5	268	124	39	87	4	8	-5
	To:	0.1	0.8	710	2950	212	759	45	18	21
Average of 6 samples:		**0.05**	**-0.5**	**489**	**663**	**117**	**377**	**23**	**13**	**9**

Note: the contrast between the relatively high copper and lead values in the Gossan Vein (Table 2), compared to the remaining samples from the Magnetic Anomaly (Table 3). This contrast is actually stronger when it is considered that three high copper and lead values from three different narrow gossan veins are included in Table 3.

If all nine gossan vein samples are combined, the average copper and lead values are 490 ppm Cu and 509 ppm Pb, while the remaining 11 non-gossan samples from the Magnetic Anomaly drop to an average of 142 ppm Cu and 59 ppm Pb.

Table 3: Magnetic Anomaly Samples (14) (excluding the Gossan Vein)

Magnetic Anomaly		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	-0.01	-0.5	26	14	5	12	-2	-5	-5
	To:	0.06	0.9	721	262	196	3380	22	13	-5
Average of 14 samples:		**-0.01**	**-0.5**	**217**	**89**	**80**	**400**	**7**	**-5**	**-5**

Mavis Area

The Mavis area includes the old Mavis tin/gold mine plus the area up to 500 m to the south of the mine. Here narrow quartz-gossan veins and local breccia pods occur mainly parallel to bedding in bleached and altered meta-greywacke(?) of the Mount Bonnie or Burrell Creek Formation. This mineralised zone is located in the core of a North to NNE plunging anticline.

The Mavis area also contains a coincident airborne electro-magnetic (AEM) anomaly and an IP chargeability anomaly. The AEM anomaly is on the 150m to 200m depth slice (i.e. buried), and the IP anomaly also appears to be sub-surface. Both of these geophysical anomalies indicate a chargeability (sulphide?) zone extending north-south for over one kilometre in length.

A total of 27 samples have been collected from the Mavis Area (Table 4). The most important assay results from these samples are the 17 gold results of 0.10 g/t Au or higher, including 10 results between 0.20 to 1.25 g/t Au. All 27 gold assays averaged 0.29 g/t Au. This anomalous gold makes the Mavis Area distinctly different from the other target areas.

Other geochemical differences include very low lead values compared to the other areas, and strangely relatively low tin values, despite Mavis being a tin mine. However it is reported that the cassiterite at Mavis is quite coarse, so that could explain the difficulty in obtaining an average sample.

Bismuth is slightly higher than the Magnetic Anomaly but much lower than the Mountain Area. While silver, arsenic and antimony are comparable to the Magnetic Anomaly, but considerably lower than the Mountain Area.

Table 4: All 27 Samples from Mavis Area

Mavis Area		**Au ppm**	**Ag ppm**	**Cu ppm**	**Pb ppm**	**Zn ppm**	**As ppm**	**Bi ppm**	**Sb ppm**	**Sn ppm**
Assay Range	**From:**	-0.01	-0.5	39	14	6	91	4	-5	-5
	To:	1.25	1.9	716	124	148	1800	235	15	303
Average of 27 samples:		**0.29**	**0.54**	**245**	**38**	**30**	**491**	**56**	**5**	**38**

Mountain Area

Mapping in 2011 revealed that the Mountain Area contains broad zones of metasomatic alteration related to fault structures that host quartz veining and local breccia pods with significant gossan after sulphides. These vein/alteration zones form ridges and hills due to their resistance to weathering. The alteration occurs over an area of about 1 km wide by 2 – 3 km long trending NNW within the Pine Creek Shear Zone. Individual alteration/structural zones range from a few metres up to 150 m wide, and can be up to 1 km in length. The main fault structures may host quartz-breccia-sulphide veins varying from a few centimetres up to 1-2 m wide. A total of 54 rock chip samples have been collected from this Mountain Area, with 21 of these samples coming from two breccia pipes (Kamas Cauldron & Jason's Peak) and a major vein (Hewson Mine) that was mined for tin (see Tables 5 to 9). The remaining 33 samples are from relatively small exposures of quartz breccia veins that occupy many fault structures throughout the area.

In 2011, three IP/resistivity lines were run over parts of the Mountain Area, and all show significant chargeability anomalies coincident with the breccia pipes and alteration/vein zones. The overall width of the chargeability zone appears to be 600 to 800 m and coincides well with the mapped alteration. The Jason's Peak area contains two very strong chargeability anomalies associated with the breccia pipe and a nearby vein zone. The line 350m to the south also shows similar anomalies but of weaker strength. This is thought to be due to either a deeper source or an off-line response.

The assay results from all 54 samples from the Mountain Area (Table 5) reveal very high arsenic and lead results, with moderately high antimony, bismuth and tin, and weakly anomalous gold and silver, while zinc is at background levels apart from three weakly anomalous values. The Mountain Area is clearly an arsenic-lead province with all 54 samples showing arsenic over 300 ppm and 45 of the 54 samples (83%) over 1,000 ppm As, for an average of 0.26% As for the 54 samples. The lead results show 42 samples over 200 ppm Pb, including 27 samples over 500 ppm Pb, of which 14 were over 1,000 ppm Pb. The overall lead average for the 54 samples is 0.16% Pb.

The bismuth and antimony assays are also quite anomalous with averages of 97 and 117 ppm respectively. The tin results are also moderately anomalous with 12 samples over 250 ppm Sn and 6 of these over 1,000 ppm Sn, with a high of 0.73% Sn. The overall average for tin for the 54 samples is 551 ppm Sn.

The gold assays are quite reasonable, with 12 of the 54 samples returning results over 0.10 ppm Au, of which 4 samples were between 0.20 and 0.29 ppm Au. Likewise silver is weakly anomalous (avg. 1.8 ppm Ag), and copper has some sporadic highs up to 0.16% Cu and an average of 234 ppm Cu.

Table 5: All 54 Samples from the Mountain Area

Mountain Area (All)		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	-0.01	0.1	17	16	8	346	1	-5	-5
	To:	0.29	26.6	1640	1.64%	672	7450	1480	2370	7290
Average of 54 samples:		**0.03**	**1.8**	**234**	**1558**	**94**	**2623**	**97**	**117**	**551**

Mountain Area - Excluding the two breccia pipes and the Hewson Mine

When the samples from the two breccia pipes and the Hewson Mine are removed, the total reconnaissance sample numbers for the Mountain Area reduces to 33 (Kamas Cauldron [7], Jason's Peak [8] & Hewson Mine [6]). Table 6 shows the averages for these 33 samples, and it is interesting to note that values are still quite comparable to the total 54 samples; and in fact the gold value has gone up to 0.08 ppm Au. Essentially what this indicates is that the scattered small veins are carrying similar mineralisation at similar magnitudes to that in the breccia pipes and major vein. Hence it is likely they are all related and are therefore reflecting a very large mineralising system coming off the buried granite.

The 33 rock chip sample results from the narrow mineralised veins show highly anomalous arsenic (0.25% As) and lead (0.11% Pb), with moderately anomalous bismuth, antimony, tin and copper, along with anomalous gold and silver. Over 30% of gold results are between 0.10 g/t and 0.29 g/t Au, while two tin results are over 0.1% (i.e. 0.19% and 0.26% Sn). Locally copper shows high values with 15 samples over 200 ppm Cu, of which 6 are over 500 ppm Cu and 3 are over 0.1% Cu. Given the high pyrite and arsenopyrite content of these veins, it is likely that much copper has been leached from the surface exposures.

Table 6: Mountain Area Samples (33), excluding samples from KC, JP & HM

Mtn Area (ex KC etc.)		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	-0.01	-0.5	21	16	15	346	-2	-5	-5
	To:	0.29	7.9	1530	1.12%	672	7450	813	164	2580
Average of 33 samples:		**0.08**	**1.1**	**333**	**1128**	**111**	**2509**	**89**	**31**	**183**

Mountain Area - Breccia Pipes and Hewson Vein

Of the three mineralised prospects within the Mountain Area, the Jason's Peak breccia pipe provides the strongest mineralisation with very high arsenic (0.36%), lead (0.53%), bismuth 259 ppm), antimony (582 ppm) and tin (0.12%), with moderately anomalous gold (0.07 g/t) and silver (6.2 g/t). Zinc is typically low which is normal for most surface samples in the Compass Creek project. What is of interest is the low copper in Jason's Peak and the other two prospects. This doesn't match with some of the high copper assays from the small breccia veins within the Mountain Area. It is possible that stronger leaching may have played a part in removing the near surface copper from these prospects.

Table 7: Kamas Cauldron Samples (7)

Kamas Cauldron (KC)		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	-0.01	0.1	17	42	8	490	1	9	43
	To:	0.01	1.8	53	1070	177	7290	84	70	5480
Average of 7 samples:		**-0.01**	**0.63**	**34**	**293**	**44**	**2746**	**20**	**36**	**995**

Table 8: Jason's Peak Samples (8)

Jason's Peak (JP)		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	0.03	0.8	20	433	9	1380	8	32	66
	To:	0.19	26.6	126	1.64%	336	5030	1480	2370	7290
Average of 8 samples:		**0.07**	**6.2**	**67**	**5252**	**81**	**3580**	**259**	**582**	**1148**

Table 9: Hewson Mine Samples (6)

Hewson Mine (HM)		Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Bi ppm	Sb ppm	Sn ppm
Assay Range	From:	0.02	-0.5	89	80	20	1070	3	32	84
	To:	0.2	2.3	266	729	140	3090	41	115	5270
Average of 6 samples:		**0.07**	**1.7**	**145**	**473**	**81**	**1832**	**18**	**69**	**1263**

APPENDIX 1

Individual Assay Lists for the Three Exploration Targets & Sub- Target Areas

1. **Magnetic Anomaly (20 samples)**

    Gossan Zone (6 samples)

    Magnetic Anomaly – Excluding Gossan Zone Samples (14 samples)

2. **Mavis & Mavis South Area (27 samples)**

3. **Mountain Area (54 samples)**

    Mountain Area – Excluding KC, JP & HM (33 samples)

    Kamas Cauldron (7 samples)

    Jason's Peak (8 samples)

    Hewson Mine (6 samples)

Magnetic Anomaly Rock Chip Samples 2008 - 2011 (All Samples)

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
104503	788505	8512184	-0.01	-0.5	26	124	108	16	3	-5	-5	otc	Pale grey fg qtzose sed w/ small porblasts along laminations. 0.5-1.0% diss py in cherty parts.
104504	788314	8512078	-0.01	-0.5	31	80	65	20	2	-5	5	otc	Cream to red-brn lim stnd arkosic sed. Occas qtz vns & FeOx stringers & diss.
104505	788272	8512042	-0.01	-0.5	262	97	180	3380	5	-5	-5	otc	Cream to red-brn lim stnd qtzose sed (bxd) w/ qtz vns & 1-10% FeOx bxwks - vnlts, diss & voids.
104506	788300	8512032	-0.01	-0.5	23	96	9	26	-2	-5	-5	otc	Wh-pk, m-cg aplite dyke (greisen?) w/ local pods of qtz/pegmatite. Tr only of mafics or FeOx.
104507	788274	8512104	-0.01	-0.5	43	46	32	73	-2	-5	-5	otc	Wh, fg qtzose sed (phy altd) w/ qtz vns, FeOx bxwks diss & on folii, & red-brn lim on fracs etc.
104508	788252	8512000	-0.01	0.5	175	41	142	119	12	-5	-5	float	High grade sample of qtz-gossan vn (3-5cm). Crystalline qtz w/ vugs of FeOx * red-brm lim stn.
104509	788510	8511610	0.01	0.8	710	2950	67	93	38	9	21	otc	Red-brn lim stnd qtzose sed (arkose?) w/ qtz-FeOx vnlts & abun lim flooding in 15m wide zone.
104510	788329	8512128	-0.01	-0.5	26	14	5	12	-2	-5	-5	otc	Cream mg qtzose unit 1-2m wide, w/ qtz vns & 1-5% FeOx seams, patches & diss. Lim on fracs.
104511	788507	8512162	-0.01	-0.5	26	61	98	10	4	5	5	otc	Pale grey to wh fg qtzose sed & qtz (greisen?). Wk lim on fracs & minor FeOx. Fg grey min.
104512	788737	8511658	-0.01	-0.5	494	232	126	921	5	13	-5	otc	Gossanous shr in qtzose sed (arkose/grwke?). Qtz vns & abun FeOx casts & stng (locally 30-50%).
104513	788705	8512060	-0.01	-0.5	264	228	196	303	2	10	-5	s/otc	Shrd gossan & qtz vng in arkose/grywke? Red-brn FeOx stn & bxwks (5-25%). N-S, ~0.5m wide.
104514	788534	8512012	-0.01	-0.5	14	62	9	18	-2	-5	-5	otc	F-mg qtz-feld aplite/granite/pegmatite (greisen?). Non mag, no min, but poss tr Sn. 1-3m wide.
104515	788552	8511984	-0.01	0.9	268	30	28	28	-2	5	-5	otc	Fg qtzose sed, shrd, leached & sil, w/ local bxn, qtz vng & FeOx bxwks diss/folii (& fg blk sulph).
104516	788551	8511972	-0.01	-0.5	372	37	9	20	2	-5	-5	otc	Continue 104515 zone Aa: non mag, str laminations of fg blk sulph in fresh (pale grey) parts.
104517	788580	8512202	-0.01	-0.5	118	97	29	20	-2	-5	-5	s/otc	Mix of str min bx sed w/ qtz vng & abun FeOx diss, vnlts & vugs; & wkly diss min in qtzose sed.
104518	788510	8512410	0.06	-0.5	51	43	56	264	22	5	-5	otc	Fg qtzose sed w/ abun qtz vnlts & FeOx stringers, gossan patches & folii. Est 5-10% ex sulphides.
104519	788910	8512340	0.01	0.5	721	140	68	240	-2	-5	-5	s/otc	Approx 50m qtz-gossan vn w/ bxn & abun FeOx infill. Host is a grey fg qtzose sed (wkly min).
104520	788705	8512530	-0.01	-0.5	187	39	82	178	3	-5	-5	otc	Altd qtzose sed w/ local qtz vng & FeOx bxwks, sponge, stng, diss, on folii & gossan patches.
645918	788505	8511594	0.01	-0.5	488	178	39	126	19	15	9	float/sub otc	14-16 chips in 3m radius. Red-brn stnd, altd sed w/ poss p-blasts & diss sulph casts, & variable qtz vng w/ abun FeOx sponge & bxwks. Strg N-S bx-vn zone w/ abun sulph min, ~10-15m wide.
645919	788514	8511592	0.02	-0.5	481	124	118	668	45	12	-5	float/sub otc	12-14 chips in 3m radius. Flt bx in strgly altd f-mg qtz-mica sed w/ red-yell-brn limonite & small p-blasts. Locally bxd & qtz vnd w/ abun diss & frac FeOx sponge & bxwks.
645920	788515	8511606	0.04	-0.5	597	208	95	530	29	18	12	float/sub otc	12-14 chips in 3m radius. Brecciated, phyllic altered sed w/ qtz vng and FeOx stn, sponge & bxwks after sulph? Same as previous two samples. N-S trending zone about 10-15m wide.
645921	788506	8511632	0.09	-0.5	390	209	212	87	5	8	-5	float/sub otc	18-20 chips in 3m radius. Bxd & phyllic altd sed with local qtz vng & mod FeOx stng, sponge & bxwks similar to previous 3 samples. Zone ~11m wide.
645922	788506	8511662	0.10	-0.5	268	310	171	759	4	16	-5	float/sub otc	12-14 chips in 3m radius. As above - altd & min bx/shr, but now mod altd w/ minor qtz vng & decrease in FeOx flooding & bxwks. Zone now ~5m wide & traceable N for a further 50-80m.
Assay Range		From:	-0.01	-0.5	26	14	5	12	-2	-5	-5		
		To:	0.1	0.9	721	2950	212	3380	45	18	21		
Average of 20 samples:			0.02	-0.5	299	261	91	393	10	7	-5		

Three samples of aplite/granite/greisen were ommited from the calculations as they are obviously not mineralised (104506, 104511 & 104514)

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Gossan Zone within Magnetic Anomaly Rock Chip Samples 2008 - 2011

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
104509	788510	8511610	0.01	0.8	710	2950	67	93	38	9	21	otc	Red-brn lim stnd qtzose sed (arkose?) w/ qtz-FeOx vnlts & abun lim flooding in 15m wide zone.
645918	788505	8511594	0.01	-0.5	488	178	39	126	19	15	9	float/sub otc	14-16 chips in 3m radius. Red-brn stnd, altd sed w/ poss p-blasts & diss sulph casts, & variable qtz vng w/ abun FeOx sponge & bxwks. Strg N-S bx-vn zone w/ abun sulph min, ~10-15m wide.
645919	788514	8511592	0.02	-0.5	481	124	118	668	45	12	-5	float/sub otc	12-14 chips in 3m radius. Flt bx in strgly altd f-mg qtz-mica sed w/ red-yell-brn limonite & small p-blasts. Locally bxd & qtz vnd w/ abun diss & frac FeOx sponge & bxwks.
645920	788515	8511606	0.04	-0.5	597	208	95	530	29	18	12	float/sub otc	12-14 chips in 3m radius. Brecciated, phyllic altered sed w/ qtz vng and FeOx stn, sponge & bxwks after sulph? Same as previous two samples. N-S trending zone about 10-15m wide.
645921	788506	8511632	0.09	-0.5	390	209	212	87	5	8	-5	float/sub otc	18-20 chips in 3m radius. Bxd & phyllic altd sed with local qtz vng & mod FeOx stng, sponge & bxwks similar to previous 3 samples. Zone ~11m wide.
645922	788506	8511662	0.10	-0.5	268	310	171	759	4	16	-5	float/sub otc	12-14 chips in 3m radius. As above - altd & min bx/shr, but now mod altd w/ minor qtz vng & decrease in FeOx flooding & bxwks. Zone now ~5m wide & traceable N for a further 50-80m.
Assay Range		**From:**	0.01	-0.5	268	124	39	87	4	8	-5		
		To:	0.1	0.8	710	2950	212	759	45	18	21		
Average of 6 samples:			**0.05**	**-0.5**	**489**	**663**	**117**	**377**	**23**	**13**	**9**		

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Magnetic Anomaly Rock Chip Samples 2008 - 2011 - Without Gossan Zone Samples

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
104503	788505	8512184	-0.01	-0.5	26	124	108	16	3	-5	-5	otc	Pale grey fg qtzose sed w/ small porblasts along laminations. 0.5-1.0% diss py in cherty parts.
104504	788314	8512078	-0.01	-0.5	31	80	65	20	2	-5	5	otc	Cream to red-brn lim stnd arkosic sed. Occas qtz vns & FeOx stringers & diss.
104505	788272	8512042	-0.01	-0.5	262	97	180	3380	5	-5	-5	otc	Cream to red-brn lim stnd qtzose sed (bxd) w/ qtz vns & 1-10% FeOx bxwks - vnlts, diss & voids.
104507	788274	8512104	-0.01	-0.5	43	46	32	73	-2	-5	-5	otc	Wh, fg qtzose sed (phy altd) w/ qtz vns, FeOx bxwks diss & on folii, & red-brn lim on fracs etc.
104508	788252	8512000	-0.01	0.5	175	41	142	119	12	-5	-5	float	High grade sample of qtz-gossan vn (3-5cm). Crystalline qtz w/ vugs of FeOx * red-brm lim stn.
104510	788329	8512128	-0.01	-0.5	26	14	5	12	-2	-5	-5	otc	Cream mg qtzose unit 1-2m wide, w/ qtz vns & 1-5% FeOx seams, patches & diss. Lim on fracs.
104512	788737	8511658	-0.01	-0.5	494	232	126	921	5	13	-5	otc	Gossanous shr in qtzose sed (arkose/grwke?). Qtz vns & abun FeOx casts & stng (locally 30-50%).
104513	788705	8512060	-0.01	-0.5	264	228	196	303	2	10	-5	s/otc	Shrd gossan & qtz vng in arkose/grywke? Red-brn FeOx stn & bxwks (5-25%). N-S, ~0.5m wide.
104515	788552	8511984	-0.01	0.9	268	30	28	28	-2	5	-5	otc	Fg qtzose sed, shrd, leached & sil, w/ local bxn, qtz vng & FeOx bxwks diss/folii (& fg blk sulph).
104516	788551	8511972	-0.01	-0.5	372	37	9	20	2	-5	-5	otc	Continue 104515 zone Aa: non mag, str laminations of fg blk sulph in fresh (pale grey) parts.
104517	788580	8512202	-0.01	-0.5	118	97	29	20	-2	-5	-5	s/otc	Mix of str min bx sed w/ qtz vng & abun FeOx diss, vnlts & vugs; & wkly diss min in qtzose sed.
104518	788510	8512410	0.06	-0.5	51	43	56	264	22	5	-5	otc	Fg qtzose sed w/ abun qtz vnlts & FeOx stringers, gossan patches & folii. Est 5-10% ex sulphides.
104519	788910	8512340	0.01	0.5	721	140	68	240	-2	-5	-5	s/otc	Approx 50m qtz-gossan vn w/ bxn & abun FeOx infill. Host is a grey fg qtzose sed (wkly min).
104520	788705	8512530	-0.01	-0.5	187	39	82	178	3	-5	-5	otc	Altd qtzose sed w/ local qtz vng & FeOx bxwks, sponge, stng, diss, on folii & gossan patches.
Assay Range		**From:**	-0.01	-0.5	26	14	5	12	-2	-5	-5		
		To:	0.06	0.9	721	262	196	3380	22	13	-5		
Average of 14 samples:			**-0.01**	**-0.5**	**217**	**89**	**80**	**400**	**7**	**-5**	**-5**		

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Mavis & Mavis South Area Rock Chip Samples 2008 - 2011

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
CC-001	789145	8513390	-0.01	-0.5	49	18	10	184	11	<5	21	float	Mavis Lower Workings: Sample of quartz vng (locally vuggy) in fg qtzose rock. Phyllic altn w/ minor FeOx bxwks after sulphides.
CC-002	789370	8513356	0.07	-0.5	673	124	128	444	235	15	8	otc	Upper Mavis workings: shallow costeans w/ bx-gossan-qtz vns. The vn is ~1m wide and trends 045 deg (mag) and dips 50 deg NW.
CC-012	789145	8513370	0.15	0.7	97	38	6	272	29	1	26	float	Qtz sulphide vn float from Mavis mine area. 2 phases of qtz.
104524	789092	8512980	0.39	-0.5	572	34	41	1800	73	-5	12	otc	Fault-Vn zone (Bx-Frac-qtz-gossan vn) ~0.5m wide, in fg slst-argillite. Strong altn & sulph min.
104525	789129	8512952	0.12	1.3	136	41	10	195	51	-5	-5	otc	Bull white qtz vn & ~5% gossan patches. High grade sample of gossan material (30%).
104526	789157	8512946	0.84	-0.5	228	42	13	91	67	-5	8	s/otc	Strly altd & qtz vnd sed w/ abun gossan (bxwks). Along strike from 104524 & 25. Same fault/vn.
104527	789256	8513132	-0.01	-0.5	39	18	15	174	4	-5	99	otc	Altd & wthrd dolerite, brecciated w/ abun qtz-tourm?-chl-FeOx (dyke ~20m wide, cuts seds).
104528	789238	8513192	-0.01	-0.5	81	25	37	409	14	-5	101	otc	Bxd & vnd altd dolerite. Abun qtz vng w/ tourm?-chl-Fe. High grade sam of vnd & min pieces.
104529	789358	8513358	0.20	1.3	716	74	82	723	28	11	12	otc	Fault bx qtz gossan vn in lower of 2 Upper Mavis costeans. Bedding parallel fault/vn structure.
104530	789370	8513348	0.02	1.9	549	43	148	828	20	9	-5	otc	Abun gossan in qtz bx vn in Upper Mavis costean (SW end). Bedding plane vn is 0.5-1.0m wide.
104531	789373	8513354	0.01	1.9	331	80	50	349	4	9	15	otc	Qtz bx vn w/ minor gossan in Upper Mavis costean (NE end). Bedding plane vn is ~0.5m wide.
104532	789160	8513394	0.18	1.1	106	31	8	379	92	5	303	otc	Qtz bx vn w/ orange frags in Lower Mavis pit. Bedding plane ven is 10cm wide w/ tr Aspy & Sn?
104533	789313	8513384	0.41	1.1	544	54	18	912	82	-5	29	otc	Qtz bx vn w/ mod gossan in Middle Mavis pit. Bedding plane ve is 15cm wide w/ tr Aspy in qtz.
104539	789041	8513044	0.60	-0.5	383	27	11	156	70	-5	-5	otc	Qtz-gossan vn zone (~0.5m wide) in altd sed w/ abun FeOx bxwks on folii & patches w/ qtz vng.

Continue Mavis & Mavis South – 27 samples

104540	789130	8513246	0.71	-0.5	183	29	9	335	221	-5	10	otc	Qtz-gossan vn zone (3-4m wide) // to bddg w/ bxd & silicif seds & locally abun FeOx bxwks.
104541	789174	8513182	1.25	-0.5	138	22	29	716	38	9	11	otc	Qtz-gossan vn zn (3-4m wide) - sub// qtz vns in altd sed, w/ FeOx bxwks diss, voids & patches.
104545	789216	8513094	0.11	-0.5	167	33	12	310	69	-5	32	float/sub otc	8-10 pieces of float over 10m radius. Fine to med gr qtzose sed, bleached & Fe stained, occas qtz veinlets & minor FeOx bxwks & sponge.
104546	789203	8513144	0.11	-0.5	405	32	21	1580	90	7	56	float/sub otc	12-15 pieces of float over 5m radius. Mineralised float is 10-20% of altered fg qtzose sed & grey mdst-sh. Local qtz vns & bx w/ qtz matrix. FeOx bxwks & Fe stain common in mineralised float.
104547	789229	8513168	0.06	-0.5	178	34	20	190	20	-5	56	otc/sub otc	Brecciated and qtz vnd sed. All the rk is broken & has common hem/lim in qtz vns. Sed is sericite altered & variably Fe stained & host FeOx bxwks.
104548	789195	8513178	0.09	-0.5	91	12	8	200	14	-5	28	float/sub otc	16-18 chips in 5m radius. Fine to mg qtzose sed altered to clay & sericite with common qtz veining from 1mm to 1cm stkwk & bedding planes. Diss & clusters of FeOx bxwks & staining.
104549	789202	8513188	0.22	0.1	88	17	17	588	18	-5	10	otc/sub otc	15-16 chips from otc trending 310 deg with dip 45 to steep to NNE. F-mg qtzose sed with strong qtz vng along bddg planes and strong altn w/ red to yell-brn to blk limonite stain & local bxwks.
104550	789169	8513212	1.00	0.1	61	14	18	151	22	-5	10	float/sub otc	12-14 chips from 5m radius. F-mg altered qtzose sed (as above) with locally strong brecciation and high bxwks after sulphides.
645907	789138	8513254	0.05	-0.5	110	19	8	251	16	6	56	float/sub otc	16-18 chips from 5m radius. Altd wh to light gy, f-mg qtzose rk (gwke?) w/ bedding parallel qtz vns w/ sulph casts & bx patches w/ abun FeOx bxwks. Rk is phyllic altd & min over~15m wide?
645908	789122	8513304	0.13	0.6	194	34	26	401	69	-5	31	float/sub otc	10-12 chips of mineralised material over 3m radius. Banded & brecciated qtz vng in phyllic altd sed w/ variable patches of FeOx staining, 2ndary infill and some ex-sulph bxwks.
645909	789155	8513232	0.15	-0.5	146	31	19	293	22	7	37	float/sub otc	10-12 chips of mineralised material over 3m radius. Pale gy & wh phyllic alter qtzose sed (gwke?) w/ qtz vng w/ sulph bxwks along bdg, & local FeOx bxwks in bx zones. Altn & min ~20m wide.
645910	789210	8513067	0.03	-0.5	90	27	18	218	14	-5	22	float	12-16 chips over 5m radius. 90% of float on hill is altd & mineralised. F-mg qtzose sed (ex arkose or gwke). Qtz vnd & phyllic altd w/ FeOx staining & 1-5% bxwks along bdg & in bx.
645911	789180	8513090	0.80	-0.5	254	85	37	1120	105	11	12	float	14-16 chips in 5m radius. 95% of float on hillside is altd & mineralised. Some blks are up to 20cm x 20cm in size. Qtz vns are up to 10cm wide. Rk similar to 645910, but more strly mineralised.
Assay Range		**From:**	-0.01	-0.5	39	14	6	91	4	-5	-5		
		To:	1.25	1.9	716	124	148	1800	235	15	303		
Average of 27 samples:			**0.29**	**0.54**	**245**	**38**	**30**	**491**	**56**	**5**	**38**		

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Mountain Area 2008 to 2011 Rock Chip Samples (Including KC, JP & HM)

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
CC-004	790454	8515703	0.01	0.7	26	302	37	4660	84	70	367	otc	KC - Sheared & bxd altered metased w/ 10-50% FeOx bxwks
CC-005	790475	8515712	-0.01	0.1	47	419	177	3560	4	42	43	sub otc	KC - Shrd & bxd altd metased w/ qtz vns & 10-30% FeOx bxwks
CC-006	790477	8515681	-0.01	0.1	34	54	22	1050	8	22	236	sub otc	KC - Altered & fractured metased w/ minor FeOx bxwks
CC-007	790499	8515693	0.01	1.1	53	103	24	7290	35	68	5480	sub otc	KC - Qtz veined & bxd altered metased w/ 10-70% FeOx bxwks
CC-008	790502	8515693	-0.01	0.5	18	42	8	490	1	9	352	sub otc	KC - Sil-ser altd metased wallrock to bx. 1-3% diss FeOx casts
CC-009	790486	8515641	0.01	1.8	43	1070	19	1330	4	16	215	sub otc	KC - Bx w/ qtz vn matrix & 40-60% FeOx bxwks, altd metased
CC-010	790471	8515663	-0.01	0.1	17	59	24	839	1	26	272	sub otc	KC - Sil-ser altd metased, mod bxd, abun FeOx bxwks
CC-011	790276	8515474	0.07	2.4	34	1220	45	2000	17	27	100	otc	Qtz vn to SW of KC. Bull qtz, partially gossanous.
CC-013	789127	8516384	0.03	1.5	48	598	27	4560	44	77	190	otc	JP - Bx/Vn - ground-up wall rock w/ qtz stringers, 5-20% FeOx
CC-014	789123	8516380	0.04	0.8	52	593	9	1380	23	32	279	sub otc	JP - Bx/Vn float, str altd metased wall rock, 30-60% FeOx bxwks
CC-015	789132	8516362	0.08	0.8	71	433	70	3980	16	461	66	otc	JP - Top of hill, no bx, just altd & fracd metased, tr qtz vn & FeOx
CC-016	789150	8516338	0.06	4.7	20	1.64%	39	1430	8	288	7290	otc	JP - Bx/Vn (sim CC-013), sil-ser altd metased, vuggy & FeOx
CC-017	789105	8516386	0.19	1.2	74	1630	77	4650	72	370	95	otc	JP - Large bx knob, sil-ser altn, abun qtz vns. Could be a pipe.
104492	788714	8516950	0.10	-0.5	149	115	111	1545	2	-5	-5	otc	Qtz vn seen from top of hill - sparse gossan.
104493	789287	8516942	-0.01	0.5	68	539	21	346	7	5	194	float	Altered float from top of hill - Jason's Peak area.
104494	789526	8516676	-0.01	0.5	21	795	21	376	3	5	12	otc	Saddleon ridge, qtz vn - trend 150/vert, jointing 135/20W, strike length 250m - photo.
104495	789530	8516418	0.18	2.2	556	1620	672	4050	25	23	-5	float?	Jason's Peak amphitheatre.
104496	789560	8516396	0.04	1.9	269	6060	668	1115	122	164	-5	otc	Jason's Peak area - qtz vn on ridge w/ limonite alteration - trend 000

Continue Mountain Area (including KC, JP & HM) – 54 samples

104497	789473	8516440	-0.01	0.5	33	512	52	603	28	19	26	otc	Alteration (porphyryblasts, pits) in sandy unit - photo.
104498	789342	8516524	0.11	-0.5	83	97	30	2570	14	-5	30	float?	Qtz vn - limonite gossan.
104500	790088	8514680	-0.01	0.5	117	212	38	1660	22	36	65	otc	Ironwood traverse: E of Mavis: ridge of qtz-chl alteration trending 130/80SE.
104542	789148	8516388	0.09	26.6	45	5500	13	4650	1480	2370	211	otc	Fluidised bx pipe (5-10m) w/ str altn, qtz vng & Fe stng in voids. Yell sec min. Solid wall rk (altd).
104543	789170	8516370	0.06	11.5	100	1.12%	336	5030	261	275	661	otc	Bxd & qtz vnd fault(?) ~1m wide w/ FeOx bxwks & sponge w/ qtz & in voids. Min vn structure.
104544	789165	8516350	0.04	2.2	126	5660	76	2960	167	782	394	otc	Bxd & qtz vnd fault(?) ~0.5m wide (in shaft). Abun diss bxwks (py?) & gossan w/ qtz vns.
645901	788728	8514504	0.02	2.1	96	706	96	1560	24	103	225	ore stk pile	12-14 pieces from Hewson mine ore stock pile at base of mine road. Fragment supported angular breccia (mm to 15cm) of altd sed & qtz frags. Abun qtz vng & FeOx filling & bxwks.
645902	789335	8515072	0.03	2.3	89	479	62	1070	9	33	5270	otc in pit	10-12 chips from remnant vein stringers in wall of Hewson pit. Main vein covered in floor (mined out). Bx w/ qtz & sed frags in 2ndary FeOx matrix. Wall rk fracd & altd (chl-hornfels) - 3-4m.
645903	789282	8515115	0.03	-0.5	118	80	20	2000	41	43	158	otc	14-16 chips from NW ext of Hewson bx vein. Vn trends ~315 deg down steep ridge, and is 0.5 to 1.0m wide and consists of 80-90% brecciated qtz vn & altd sed w/ wk FeOx stain & bxwks.
645904	789372	8515056	0.06	2.2	132	634	96	1840	25	115	1745	sorting stk pile	15-16 pieces from a "sorting dump" next to Hewson pit. Abun large blks of bx w/ qtz & sed frags and strong FeOx fill and local bxwks. Local hornfels wallrock sed has 5-10mm chl porphyroblasts.
645905	789395	8515012	0.09	2.1	266	211	140	1430	3	32	84	otc	15-16 chips from bx-vein otc. Vein is ~1m wide and trends ~315 deg +/-vert. Altd & brecciated sed & qtz frags w/ qtz vng & FeOx stain, infill & local bxwks. Photo looking 290 deg along vein.
645906	789457	8514978	0.20	1.1	166	729	69	3090	6	85	93	otc	10-12 chips from bx vein over 1m x 5m area. Bx vn is 0.5m to 1.0m wide, trending ~315 deg. Same vein material as for sample 546905.
645912	789053	8516492	0.01	-0.5	348	16	100	491	-2	-5	38	otc	15-18 chips across a 1m wide weakly altered & mineralised fault/shr zone trending 325 deg +/-vert dip. Olive grn altd sed w/ hl to 3mm qtz vns in Flt/Shr and wall rocks. Minor FeOx ex-sulph.
645913	789343	8516153	0.02	-0.5	131	911	66	2370	15	17	57	otc/sub otc	12-16 chips in a 1m x 5m area along a bx qtz vn zone w/- strg altn & Fe Ox bxwks (gossan). Altd f-mg gwke? w/- qtz vns up to 10cm (gen narrow) and infilling bx. Foli & bx trend ~355 deg.
645914	789343	8516163	0.06	0.6	82	338	35	2050	18	34	56	otc/sub otc	12-15 chips over 0.5m x 3m along the same qtz-bx-vn as 645913. Locally abun qtz as refragmented clasts. This Flt Bx is the centre of a zone of altn & subsidiary vng about 30m wide.
645915	789360	8516062	0.02	-0.5	316	218	74	2730	136	22	20	float/sub otc	12-16 chips of altd & mineralised material over 3m radius. Same zone as 645913-914 above. All the sub-otc is altd sed w/ variable qtz vng and FeOx gossan & local bx w/ strg qtz & FeOx.
645916	789347	8515982	0.06	-0.5	1640	266	104	7450	41	26	9	otc	12-14 chips taken across ~2m of shrd & altd sed w/ minor qtz vng as stringers. Local zones of bxd & shrd sed are strgly vnd & altd, & locally have abun FeOx stng, filling & bxwks.
645925	789822	8515454	0.02	1.0	237	658	214	1200	18	83	41	otc	15-17 chips over a 3m x 4m area of strg bx w/ qtz vng, silicic-phyllic altn & locally abun FeOx stng, bxwks & flooding. Part of 15m wide zone of altd gywke w/ netwk qtz vns & diss p-blasts.
645926	789682	8515490	0.03	1.0	80	1140	28	865	25	8	30	otc	14-16 chips in 3m radius in the centre of a wkly altd sed (gywke) zone 25m wide trending 325 deg forming a ridge. Rel wk qtz netwk vng w/ local bxn & FeOx stng, bxwks & infill.
645927	789646	8515365	0.16	4.9	489	1.12%	41	5890	171	43	50	otc	14-16 chips over 3m wide zone of bxd & qtz vnd & silicic altd sed w/ wk-mod FeOx & scorodite stn. Near centre of 120m wide altn zone w/ multiple altd faults. Locally strg hornfels w/ p-blasts.
645928	789404	8515264	0.09	-0.5	263	288	120	1000	61	30	88	otc	12-14 pieces from 0.5 x 5m otc of mineralised bx w/ qtz vng & abun FeOx sponge, bxwks & frac coatings. In a zone of altd gywke trending 325 deg about 100m wide. Qtz-FeOx float is common.
645929	789063	8515924	0.25	-0.5	67	1030	51	6020	22	23	27	otc	12-14 chips over 2m radius of qtz-FeOx vnd altd gywke w/ local p-blasts. Silicic altn w/ netwk qtz vng & FeOx bxwks, sponge and stng. Vns 1mm to 2cm. Zone ~20m wide & trends 355 deg.

Continue Mountain Area (including KC, JP & HM) – 54 samples

645930	789417	8515494	0.29	0.6	168	102	29	1430	29	15	96	otc	16-18 pieces over 3m radius where qtz vns (up to 5mm) are common w/ 10-30% FeOx bxwks & stng in the vn-bx zones. Elsewhere in this 50m wide zone, the vng & altn is rel weak (~2% vng).
645931	789155	8515554	0.23	-0.5	86	67	70	1120	26	27	15	otc	12-14 chips over 3m radius. Lensoidal zone (20m x 5m) of strg qtz stkwk vng w/ FeOx sponge & bxwks; within a broader wk-mod altn zone of pale gy-grn gywke (BC fm) w/ wk vng & min.
645932	789646	8515324	0.07	0.9	749	4060	147	5200	86	38	8	otc	16-18 chips across 2m of vn/altd zone trending 330 deg +/-vert. Qtz vns 1-2cm along foli & hl-3mm form netwk. Minor FeOx stng & bxwks w/ qtz vns. Broader zone is wk-mod altd gywke.
645933	789488	8515132	0.05	0.9	1530	922	126	4060	813	69	164	otc	10-12 pieces from Qtz-FeOx bx (0.5 x 1m) in mod altd gy-grn vnd gywke. Bx of sed & qtz frags in 2ndary FeOx fill & local bxwks; cut by qtz vns. Host has local p-blasts. Trends ~330 deg.
645934	789780	8515080	0.01	1.1	116	227	24	1470	37	19	122	otc	10-12 chips over 3m radius. Grey-grn mod-strgly altd gywke w/ common qtz vng (1-6 vns/m up to 1cm thick). Locally vns & bx host FeOx sponge & bxwks. Altn ~150m wide (NNW ridge).
645935	789870	8514972	0.13	7.9	984	2150	214	6940	416	111	1880	otc	14-16 chips of bxd qtz-FeOx vn 0.3m x 3m trending 320 deg. Bx consists of qtz & rk frags in FeOx fill (2ndary) & bxwks. Host is gy grn altd gywke (BC fm) w/ common qtz vng ~150m wide.
645936	789545	8515625	0.13	-0.5	1090	83	218	6140	441	36	24	otc	14-16 chips over 1m x 4m area from bx vns (10-20cm wide) w/ abun FeOx sponge & bxwks, hosted in altd gywke w/ qtz-FeOx vns. Vng trends ~325 deg & zone is ~100m wide.
645937	789510	8515696	-0.01	-0.5	137	278	66	780	27	-5	18	otc	14-16 chips over 0.5m x 3m area from qtz vnd & altd sed. Abun qtz vng netwk over 4-5m wide zone, but only minor FeOx after sulph. Otc & foli trends 325 deg w/ vert to 80 deg NE dip.
645938	789692	8515930	0.05	-0.5	88	93	20	1070	49	5	64	otc	16-18 chips of qtz vn & wallrock over 3m radius. Otc of mod altd & vnd gywke w/ minor FeOx sponge or bxwks. Locally qtz vns to 2cm wide, p-blasts to 5mm & bx zones w/ FeOx.
645941	789329	8516442	0.11	1.2	159	530	35	4010	49	65	53	otc	10-12 chips over 0.3m x 5m qtz-FeOx vn zone trend 330 deg. Flt zone has strg qtz vng to 2cm & strgly altd wall rock w/ local abun FeOx bxwks in vns. P-blasts common in strg altn zones.
645942	789470	8516408	0.06	-0.5	115	390	59	1120	47	13	104	otc	10-12 chips along 5m of 0.3m wide qtz-FeOx vn zone within broader (~30m) altd zone trending ~350 deg. Stringer qtz vns w/ locally abun FeOx, & strg p-blasts next to vns w/ py-chl infill.
645943	789284	8517084	0.03	0.5	309	207	101	477	43	16	2580	otc	16-18 chips from 1m wide strgly altd vn zone trending 340 deg +/-vert. Strg silicic altn & qtz vng w/ locally abun FeOx sulph bxwks & strg Fe flooding over 5m strike. Part of larger altn zone.
645944	790060	8515418	0.02	-0.5	205	328	46	2370	35	28	11	otc	12-14 chips from 10-20cm qtz-FeOx vn pod tracable for 3-5m. Within 3-4m wide mod altd gy-grn gywke w/ p-blasts to 5mm & irreg qtz vnlts w/ FeOx on edges. Altn zone trends 325 deg.
645945	789682	8515374	0.04	2.3	283	547	15	2270	92	7	47	otc/sub otc	14-16 chips from 10-20cm wide qtz vn zone over 5m length. Vuggy bx vn w/ large p-blasts in wall rk. FeOx bxwks occur in qtz vns & p-blasts. Vn is in broad wk-mod altn zone trending ~325 deg.
Assay Range	**From:**	-0.01	0.1	17	16	8	346	1	-5	-5		
	To:	0.29	26.6	1640	1.64%	672	7450	1480	2370	7290		
Average of 54 samples:		**0.03**	**1.8**	**234**	**1558**	**94**	**2623**	**97**	**117**	**551**		

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Mountain Area 2008 to 2011 Rock Chip Samples (Excluding KC, JP & HM)

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
CC-011	790276	8515474	0.07	2.4	34	1220	45	2000	17	27	100	otc	Qtz vn to SW of KC. Bull qtz, partially gossanous.
104492	788714	8516950	0.10	-0.5	149	115	111	1545	2	-5	-5	otc	Qtz vn seen from top of hill - sparse gossan.
104493	789287	8516942	-0.01	0.5	68	539	21	346	7	5	194	float	Altered float from top of hill - Jason's Peak area.
104494	789526	8516676	-0.01	0.5	21	795	21	376	3	5	12	otc	Saddleon ridge, qtz vn - trend 150/vert, jointing 135/20W, strike length 250m - photo.
104495	789530	8516418	0.18	2.2	556	1620	672	4050	25	23	-5	float?	Jason's Peak amphitheatre.
104496	789560	8516396	0.04	1.9	269	6060	668	1115	122	164	-5	otc	Jason's Peak area - qtz vn on ridge w/ limonite alteration - trend 000
104497	789473	8516440	-0.01	0.5	33	512	52	603	28	19	26	otc	Alteration (porphyryblasts, pits) in sandy unit - photo.
104498	789342	8516524	0.11	-0.5	83	97	30	2570	14	-5	30	float?	Qtz vn - limonite gossan.
104500	790088	8514680	-0.01	0.5	117	212	38	1660	22	36	65	otc	Ironwood traverse: E of Mavis: ridge of qtz-chl alteration trending 130/80SE.
645912	789053	8516492	0.01	-0.5	348	16	100	491	-2	-5	38	otc	15-18 chips across a 1m wide weakly altered & mineralised fault/shr zone trending 325 deg +/-vert dip. Olive grn altd sed w/ hl to 3mm qtz vns in Flt/Shr and wall rocks. Minor FeOx ex-sulph.
645913	789343	8516153	0.02	-0.5	131	911	66	2370	15	17	57	otc/sub otc	12-16 chips in a 1m x 5m area along a bx qtz vn zone w/- strg altn & Fe Ox bxwks (gossan). Altd f-mg gwke? w/- qtz vns up to 10cm (gen narrow) and infilling bx. Foli & bx trend ~355 deg.
645914	789343	8516163	0.06	0.6	82	338	35	2050	18	34	56	otc/sub otc	12-15 chips over 0.5m x 3m along the same qtz-bx-vn as 645913. Locally abun qtz as refragmented clasts. This Flt Bx is the centre of a zone of altn & subsidiary vng about 30m wide.
645915	789360	8516062	0.02	-0.5	316	218	74	2730	136	22	20	float/sub otc	12-16 chips of altd & mineralised material over 3m radius. Same zone as 645913-914 above. All the sub-otc is altd sed w/ variable qtz vng and FeOx gossan & local bx w/ strg qtz & FeOx.
645916	789347	8515982	0.06	-0.5	1640	266	104	7450	41	26	9	otc	12-14 chips taken across ~2m of shrd & altd sed w/ minor qtz vng as stringers. Local zones of bxd & shrd sed are strgly vnd & altd, & locally have abun FeOx stng, filling & bxwks.
645925	789822	8515454	0.02	1.0	237	658	214	1200	18	83	41	otc	15-17 chips over a 3m x 4m area of strg bx w/ qtz vng, silicic-phyllic altn & locally abun FeOx stng, bxwks & flooding. Part of 15m wide zone of altd gywke w/ netwk qtz vns & diss p-blasts.
645926	789682	8515490	0.03	1.0	80	1140	28	865	25	8	30	otc	14-16 chips in 3m radius in the centre of a wkly altd sed (gywke) zone 25m wide trending 325 deg forming a ridge. Rel wk qtz netwk vng w/ local bxn & FeOx stng, bxwks & infill.
645927	789646	8515365	0.16	4.9	489	1.12%	41	5890	171	43	50	otc	14-16 chips over 3m wide zone of bxd & qtz vnd & silicic altd sed w/ wk-mod FeOx & scorodite stn. Near centre of 120m wide altn zone w/ multiple altd faults. Locally strg hornfels w/ p-blasts.
645928	789404	8515264	0.09	-0.5	263	288	120	1000	61	30	88	otc	12-14 pieces from 0.5 x 5m otc of mineralised bx w/ qtz vng & abun FeOx sponge, bxwks & frac coatings. In a zone of altd gywke trending 325 deg about 100m wide. Qtz-FeOx float is common.
645929	789063	8515924	0.25	-0.5	67	1030	51	6020	22	23	27	otc	12-14 chips over 2m radius of qtz-FeOx vnd altd gywke w/ local p-blasts. Silicic altn w/ netwk qtz vng & FeOx bxwks, sponge and stng. Vns 1mm to 2cm. Zone ~20m wide & trends 355 deg.
645930	789417	8515494	0.29	0.6	168	102	29	1430	29	15	96	otc	16-18 pieces over 3m radius where qtz vns (up to 5mm) are common w/ 10-30% FeOx bxwks & stng in the vn-bx zones. Elsewhere in this 50m wide zone, the vng & altn is rel weak (~2% vng).

Continue Mountain Area (Excluding KC, JP & HM) – 33 samples.

645931	789155	8515554	0.23	-0.5	86	67	70	1120	26	27	15	otc	12-14 chips over 3m radius. Lensoidal zone (20m x 5m) of strg qtz stkwk vng w/ FeOx sponge & bxwks; within a broader wk-mod altn zone of pale gy-grn gywke (BC fm) w/ wk vng & min.
645932	789646	8515324	0.07	0.9	749	4060	147	5200	86	38	8	otc	16-18 chips across 2m of vn/altd zone trending 330 deg +/-vert. Qtz vns 1-2cm along foli & hl-3mm form netwk. Minor FeOx stng & bxwks w/ qtz vns. Broader zone is wk-mod altd gywke.
645933	789488	8515132	0.05	0.9	1530	922	126	4060	813	69	164	otc	10-12 pieces from Qtz-FeOx bx (0.5 x 1m) in mod altd gy-grn vnd gywke. Bx of sed & qtz frags in 2ndary FeOx fill & local bxwks; cut by qtz vns. Host has local p-blasts. Trends ~330 deg.
645934	789780	8515080	0.01	1.1	116	227	24	1470	37	19	122	otc	10-12 chips over 3m radius. Grey-grn mod-strgly altd gywke w/ common qtz vng (1-6 vns/m up to 1cm thick). Locally vns & bx host FeOx sponge & bxwks. Altn ~150m wide (NNW ridge).
645935	789870	8514972	0.13	7.9	984	2150	214	6940	416	111	1880	otc	14-16 chips of bxd qtz-FeOx vn 0.3m x 3m trending 320 deg. Bx consists of qtz & rk frags in FeOx fill (2ndary) & bxwks. Host is gy grn altd gywke (BC fm) w/ common qtz vng ~150m wide.
645936	789545	8515625	0.13	-0.5	1090	83	218	6140	441	36	24	otc	14-16 chips over 1m x 4m area from bx vns (10-20cm wide) w/ abun FeOx sponge & bxwks, hosted in altd gywke w/ qtz-FeOx vns. Vng trends ~325 deg & zone is ~100m wide.
645937	789510	8515696	-0.01	-0.5	137	278	66	780	27	-5	18	otc	14-16 chips over 0.5m x 3m area from qtz vnd & altd sed. Abun qtz vng netwk over 4-5m wide zone, but only minor FeOx after sulph. Otc & foli trends 325 deg w/ vert to 80 deg NE dip.
645938	789692	8515930	0.05	-0.5	88	93	20	1070	49	5	64	otc	16-18 chips of qtz vn & wallrock over 3m radius. Otc of mod altd & vnd gywke w/ minor FeOx sponge or bxwks. Locally qtz vns to 2cm wide, p-blasts to 5mm & bx zones w/ FeOx.
645941	789329	8516442	0.11	1.2	159	530	35	4010	49	65	53	otc	10-12 chips over 0.3m x 5m qtz-FeOx vn zone trend 330 deg. Flt zone has strg qtz vng to 2cm & strgly altd wall rock w/ local abun FeOx bxwks in vns. P-blasts common in strg altn zones.
645942	789470	8516408	0.06	-0.5	115	390	59	1120	47	13	104	otc	10-12 chips along 5m of 0.3m wide qtz-FeOx vn zone within broader (~30m) altd zone trending ~350 deg. Stringer qtz vns w/ locally abun FeOx, & strg p-blasts next to vns w/ py-chl infill.
645943	789284	8517084	0.03	0.5	309	207	101	477	43	16	2580	otc	16-18 chips from 1m wide strgly altd vn zone trending 340 deg +/-vert. Strg silicic altn & qtz vng w/ locally abun FeOx sulph bxwks & strg Fe flooding over 5m strike. Part of larger altn zone.
645944	790060	8515418	0.02	-0.5	205	328	46	2370	35	28	11	otc	12-14 chips from 10-20cm qtz-FeOx vn pod tracable for 3-5m. Within 3-4m wide mod altd gy-grn gywke w/ p-blasts to 5mm & irreg qtz vnlts w/ FeOx on edges. Altn zone trends 325 deg.
645945	789682	8515374	0.04	2.3	283	547	15	2270	92	7	47	otc/sub otc	14-16 chips from 10-20cm wide qtz vn zone over 5m length. Vuggy bx vn w/ large p-blasts in wall rk. FeOx bxwks occur in qtz vns & p-blasts. Vn is in broad wk-mod altn zone trending ~325 deg.
Assay Range	**From:**	-0.01	-0.5	21	16	15	346	-2	-5	-5			
	To:	0.29	7.9	1530	1.12%	672	7450	813	164	2580			
Average of 33 samples:		**0.08**	**1.1**	**333**	**1128**	**111**	**2509**	**89**	**31**	**183**			

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Kamas Cauldron (KC) 2008 to 2011 Rock Chip Samples

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
CC-004	790454	8515703	0.01	0.7	26	302	37	4660	84	70	367	otc	KC - Sheared & bxd altered metased w/ 10-50% FeOx bxwks
CC-005	790475	8515712	-0.01	0.1	47	419	177	3560	4	42	43	sub otc	KC - Shrd & bxd altd metased w/ qtz vns & 10-30% FeOx bxwks
CC-006	790477	8515681	-0.01	0.1	34	54	22	1050	8	22	236	sub otc	KC - Altered & fractured metased w/ minor FeOx bxwks
CC-007	790499	8515693	0.01	1.1	53	103	24	7290	35	68	5480	sub otc	KC - Qtz veined & bxd altered metased w/ 10-70% FeOx bxwks
CC-008	790502	8515693	-0.01	0.5	18	42	8	490	1	9	352	sub otc	KC - Sil-ser altd metased wallrock to bx. 1-3% diss FeOx casts
CC-009	790486	8515641	0.01	1.8	43	1070	19	1330	4	16	215	sub otc	KC - Bx w/ qtz vn matrix & 40-60% FeOx bxwks, altd metased
CC-010	790471	8515663	-0.01	0.1	17	59	24	839	1	26	272	sub otc	KC - Sil-ser altd metased, mod bxd, abun FeOx bxwks
Assay Range		**From:**	-0.01	0.1	17	42	8	490	1	9	43		
		To:	0.01	1.8	53	1070	177	7290	84	70	5480		
Average of 7 samples:			**-0.01**	**0.63**	**34**	**293**	**44**	**2746**	**20**	**36**	**995**		

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

Jason's Peak (JP) 2008 to 2011 Rock Chip Samples

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
CC-013	789127	8516384	0.03	1.5	48	598	27	4560	44	77	190	otc	JP - Bx/Vn - ground-up wall rock w/ qtz stringers, 5-20% FeOx
CC-014	789123	8516380	0.04	0.8	52	593	9	1380	23	32	279	sub otc	JP - Bx/Vn float, str altd metased wall rock, 30-60% FeOx bxwks
CC-015	789132	8516362	0.08	0.8	71	433	70	3980	16	461	66	otc	JP - Top of hill, no bx, just altd & fracd metased, tr qtz vn & FeOx
CC-016	789150	8516338	0.06	4.7	20	1.64%	39	1430	8	288	7290	otc	JP - Bx/Vn (sim CC-013), sil-ser altd metased, vuggy & FeOx
CC-017	789105	8516386	0.19	1.2	74	1630	77	4650	72	370	95	otc	JP - Large bx knob, sil-ser altn, abun qtz vns. Could be a pipe.
104542	789148	8516388	0.09	26.6	45	5500	13	4650	1480	2370	211	otc	Fluidised bx pipe (5-10m) w/ str altn, qtz vng & Fe stng in voids. Yell sec min. Solid wall rk (altd).
104543	789170	8516370	0.06	11.5	100	1.12%	336	5030	261	275	661	otc	Bxd & qtz vnd fault(?) ~1m wide w/ FeOx bxwks & sponge w/ qtz & in voids. Min vn structure.
104544	789165	8516350	0.04	2.2	126	5660	76	2960	167	782	394	otc	Bxd & qtz vnd fault(?) ~0.5m wide (in shaft). Abun diss bxwks (py?) & gossan w/ qtz vns.
Assay Range		**From:**	0.03	0.8	20	433	9	1380	8	32	66		
		To:	0.19	26.6	126	1.64%	336	5030	1480	2370	7290		
Average of 8 samples:			**0.07**	**6.2**	**67**	**5252**	**81**	**3580**	**259**	**582**	**1148**		

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).

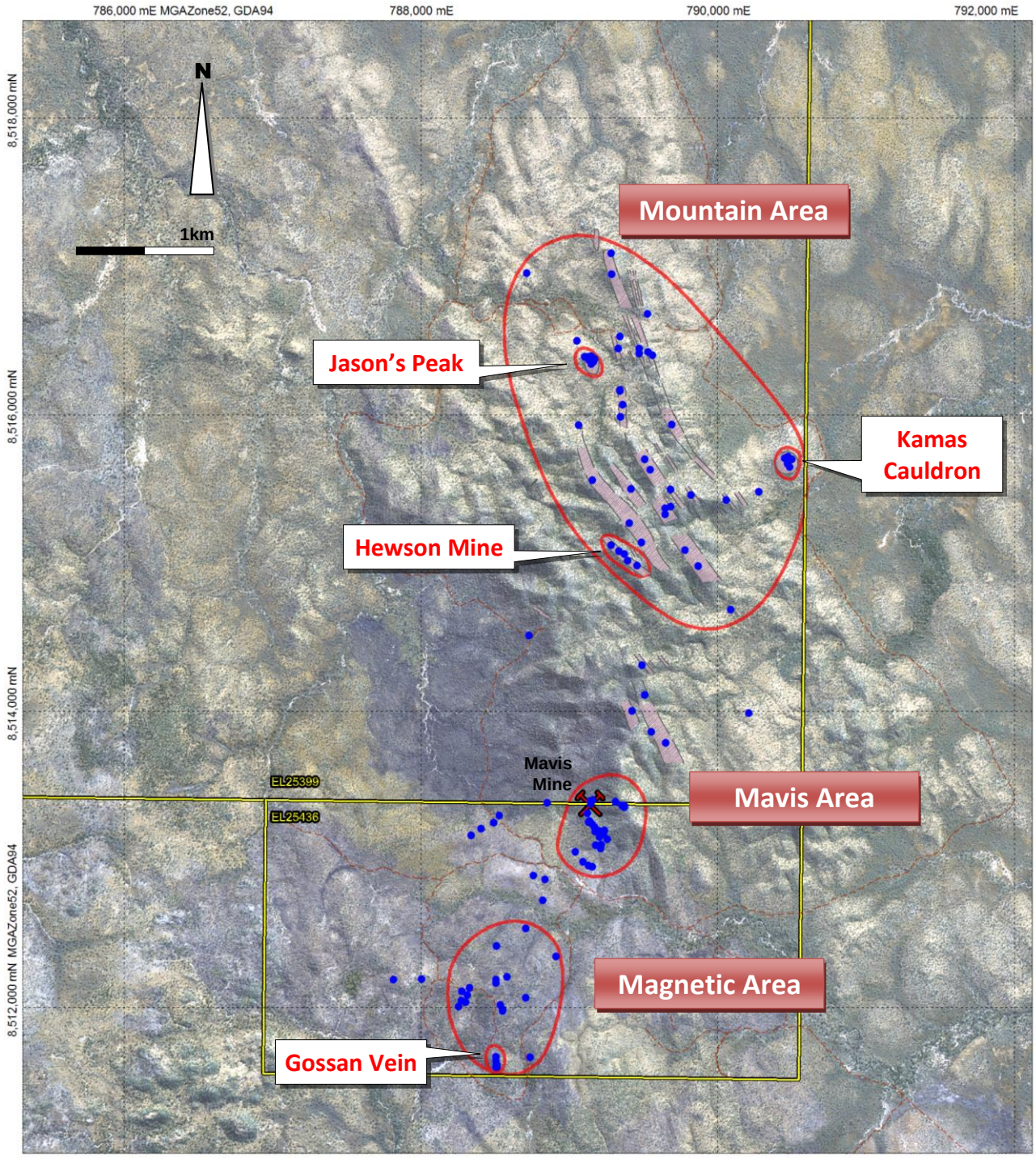
Hewson Mine (HM) 2008 to 2011 Rock Chip Samples

Sample	MGA Zone 52 (GDA94)		Au	Ag	Cu	Pb	Zn	As	Bi	Sb	Sn	Sample	Brief Description of Rock Samples
Number	mE	mN	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Type	
645901	788728	8514504	0.02	2.1	96	706	96	1560	24	103	225	ore stk pile	12-14 pieces from Hewson mine ore stock pile at base of mine road. Fragment supported angular breccia (mm to 15cm) of altd sed & qtz frags. Abun qtz vng & FeOx filling & bxwks.
645902	789335	8515072	0.03	2.3	89	479	62	1070	9	33	5270	otc in pit	10-12 chips from remnant vein stringers in wall of Hewson pit. Main vein covered in floor (mined out). Bx w/ qtz & sed frags in 2ndary FeOx matrix. Wall rk fracd & altd (chl-hornfels) - 3-4m.
645903	789282	8515115	0.03	-0.5	118	80	20	2000	41	43	158	otc	14-16 chips from NW ext of Hewson bx vein. Vn trends ~315 deg down steep ridge, and is 0.5 to 1.0m wide and consists of 80-90% brecciated qtz vn & altd sed w/ wk FeOx stain & bxwks.
645904	789372	8515056	0.06	2.2	132	634	96	1840	25	115	1745	sorting stk pile	15-16 pieces from a "sorting dump" next to Hewson pit. Abun large blks of bx w/ qtz & sed frags and strong FeOx fill and local bxwks. Local hornfels wallrock sed has 5-10mm chl porphyroblasts.
645905	789395	8515012	0.09	2.1	266	211	140	1430	3	32	84	otc	15-16 chips from bx-vein otc. Vein is ~1m wide and trends ~315 deg +/-vert. Altd & brecciated sed & qtz frags w/ qtz vng & FeOx stain, infill & local bxwks. Photo looking 290 deg along vein.
645906	789457	8514978	0.20	1.1	166	729	69	3090	6	85	93	otc	10-12 chips from bx vein over 1m x 5m area. Bx vn is 0.5m to 1.0m wide, trending ~315 deg. Same vein material as for sample 546905.
Assay Range		**From:**	0.02	-0.5	89	80	20	1070	3	32	84		
		To:	0.2	2.3	266	729	140	3090	41	115	5270		
Average of 6 samples:			**0.07**	**1.7**	**145**	**473**	**81**	**1832**	**18**	**69**	**1263**		

Highlight values: Au>0.10, Ag>2.0, Cu>200, Pb>150, Zn>300, As>300, Bi>25, Sb>25, & Sn>50 ppm.

Highlight values: Au>0.20, Ag>5.0, Cu>500, Pb>500, Zn>1000, As>1000, Bi>100, Sb>100, & Sn>250 ppm.

Note: All assays of "<" less than are shown as a "-" minus sign. For averaging of assays, all "less than" values are given a value half of the "less than" value (e.g. -0.5 is given a value of 0.25 for that assay).



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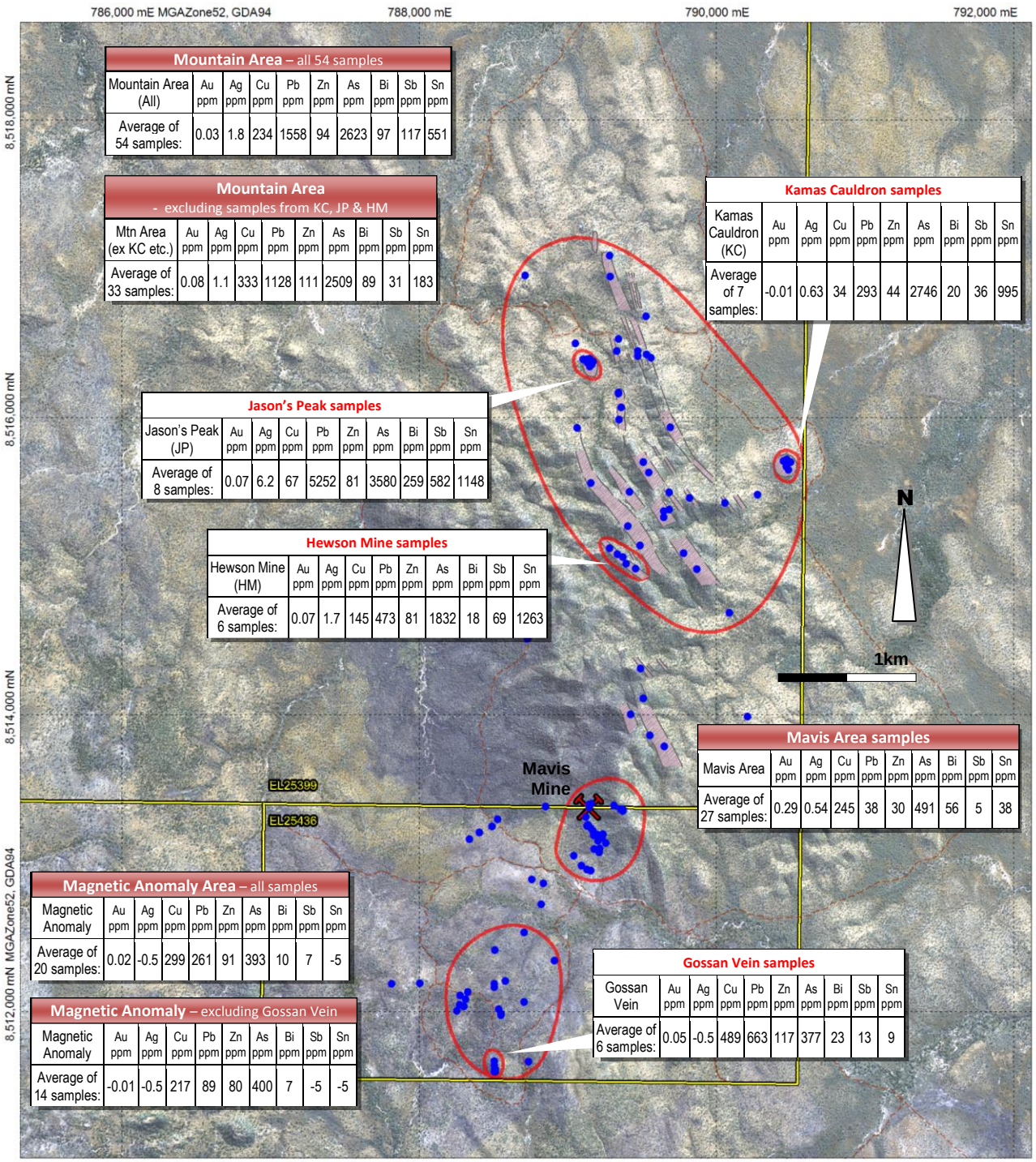
COMPASS CREEK
EL25399, EL25436

ROCK CHIP LOCATIONS

Drawn: Jim McG-D / MontanaGIS
Date: 26nov11

Figure 1.



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ROCK CHIP LOCATIONS

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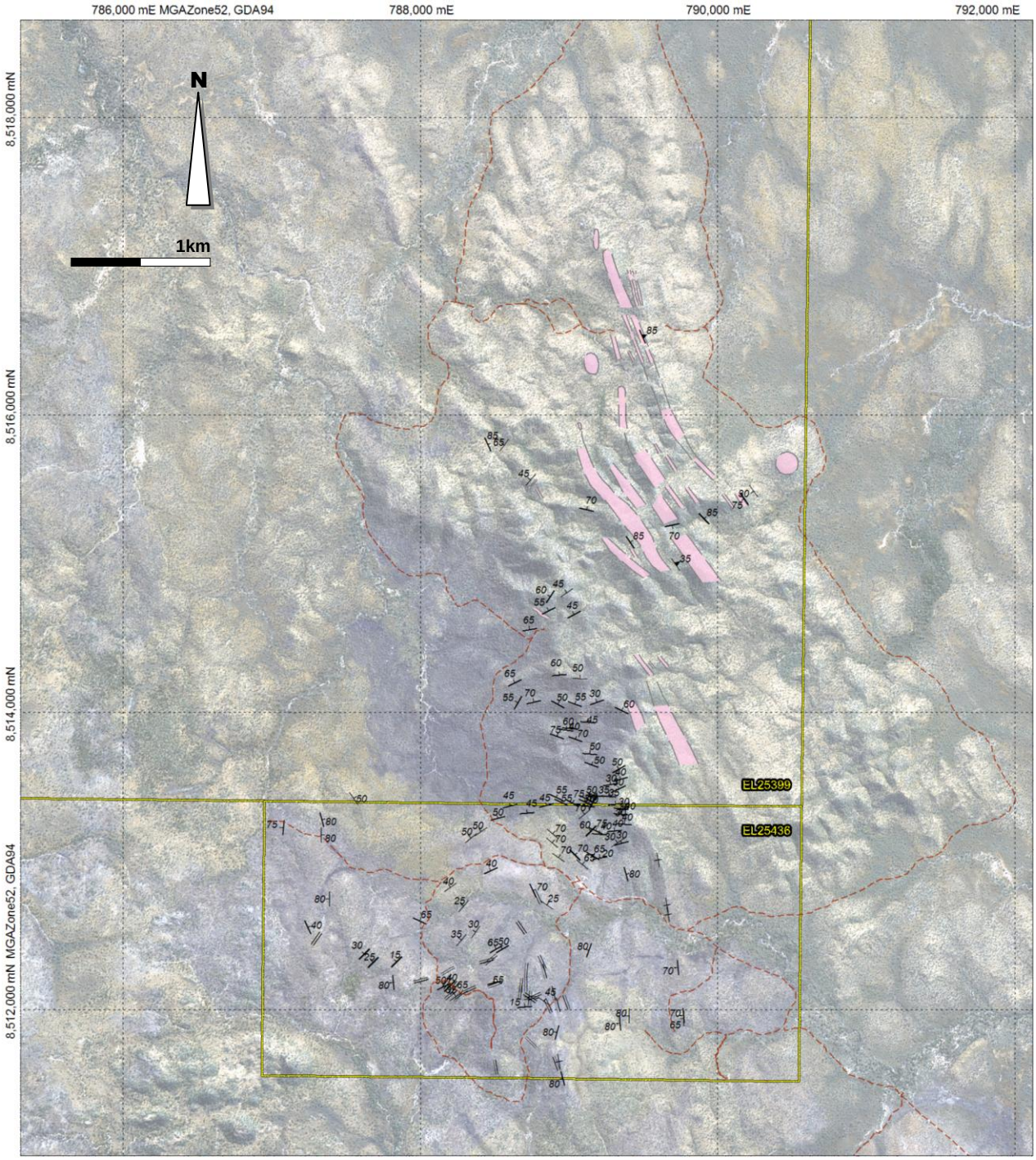
Figure 2.



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ROCK CHIP LOCATIONS

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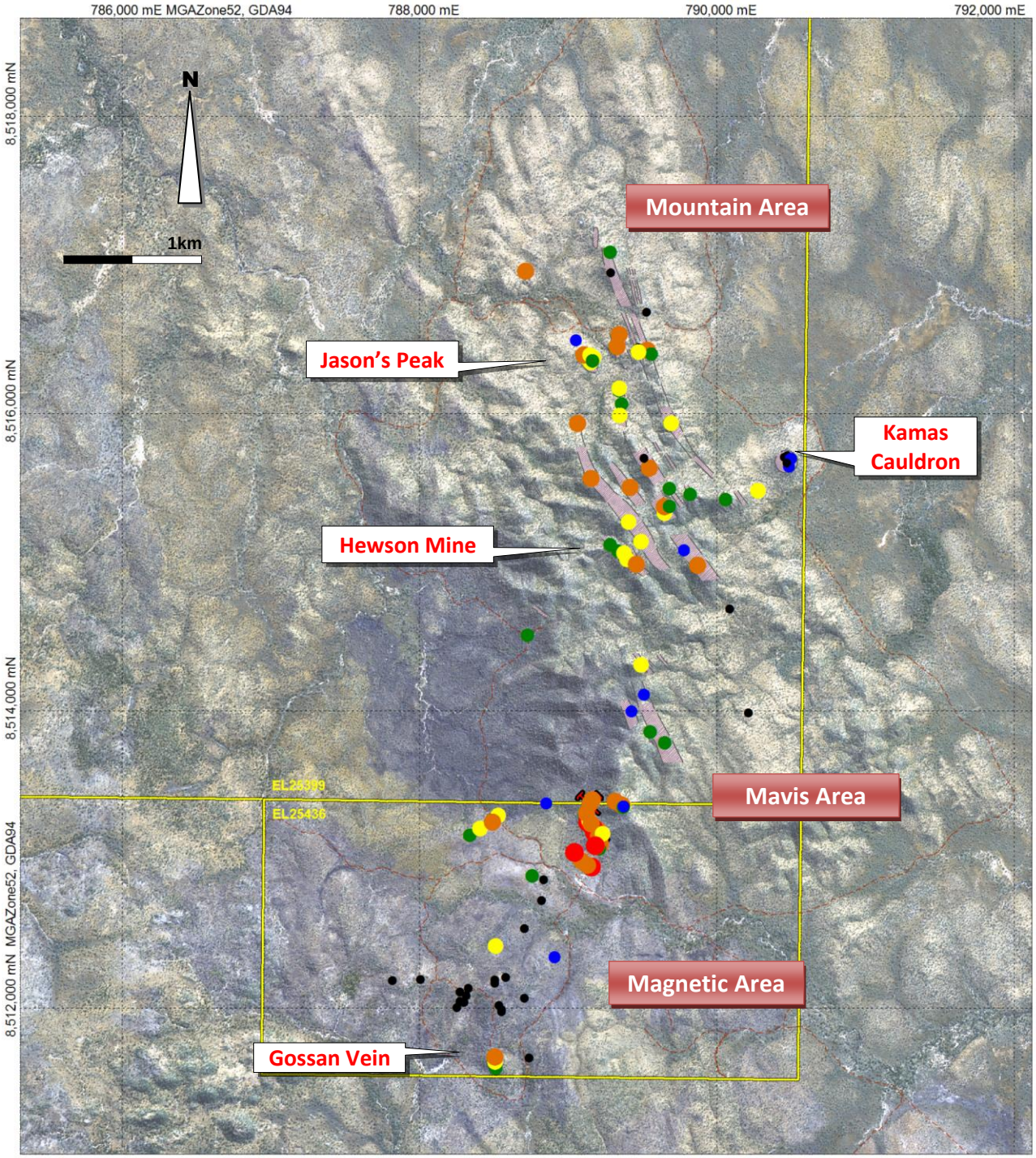
Figure 3.



Au ppm

- > 0.5
- 0.1 to 0.5
- 0.05 to 0.1
- 0.02 to 0.05
- 0.01 to 0.02
- < 0.01

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ROCK CHIP LOCATIONS
Au ppm

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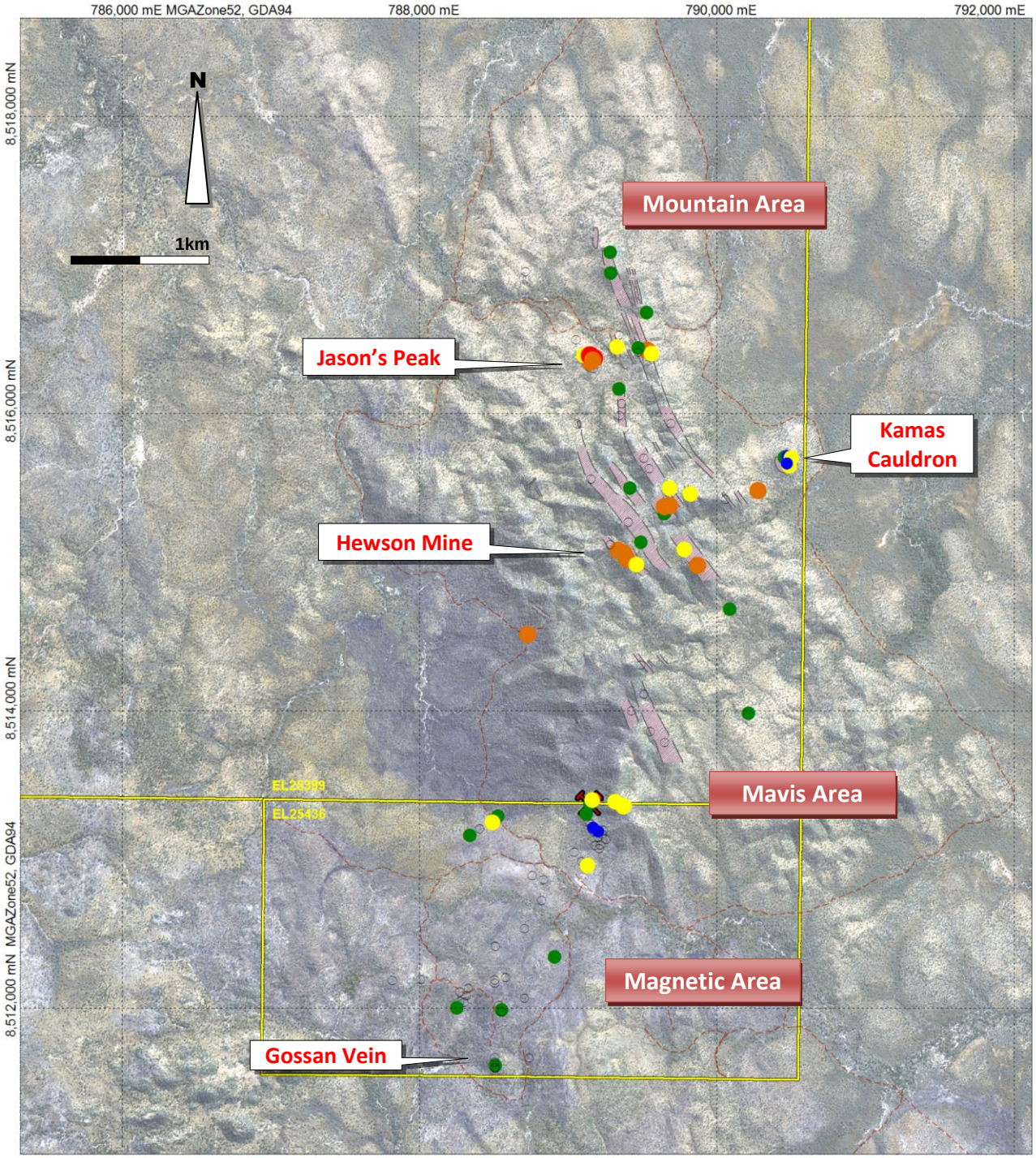
Figure 4.



Ag ppm

- > 10
- 2 to 10
- 1 to 2
- 0.5 to 1
- 0 to 0.5
- < 0

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ROCK CHIP LOCATIONS
Ag ppm

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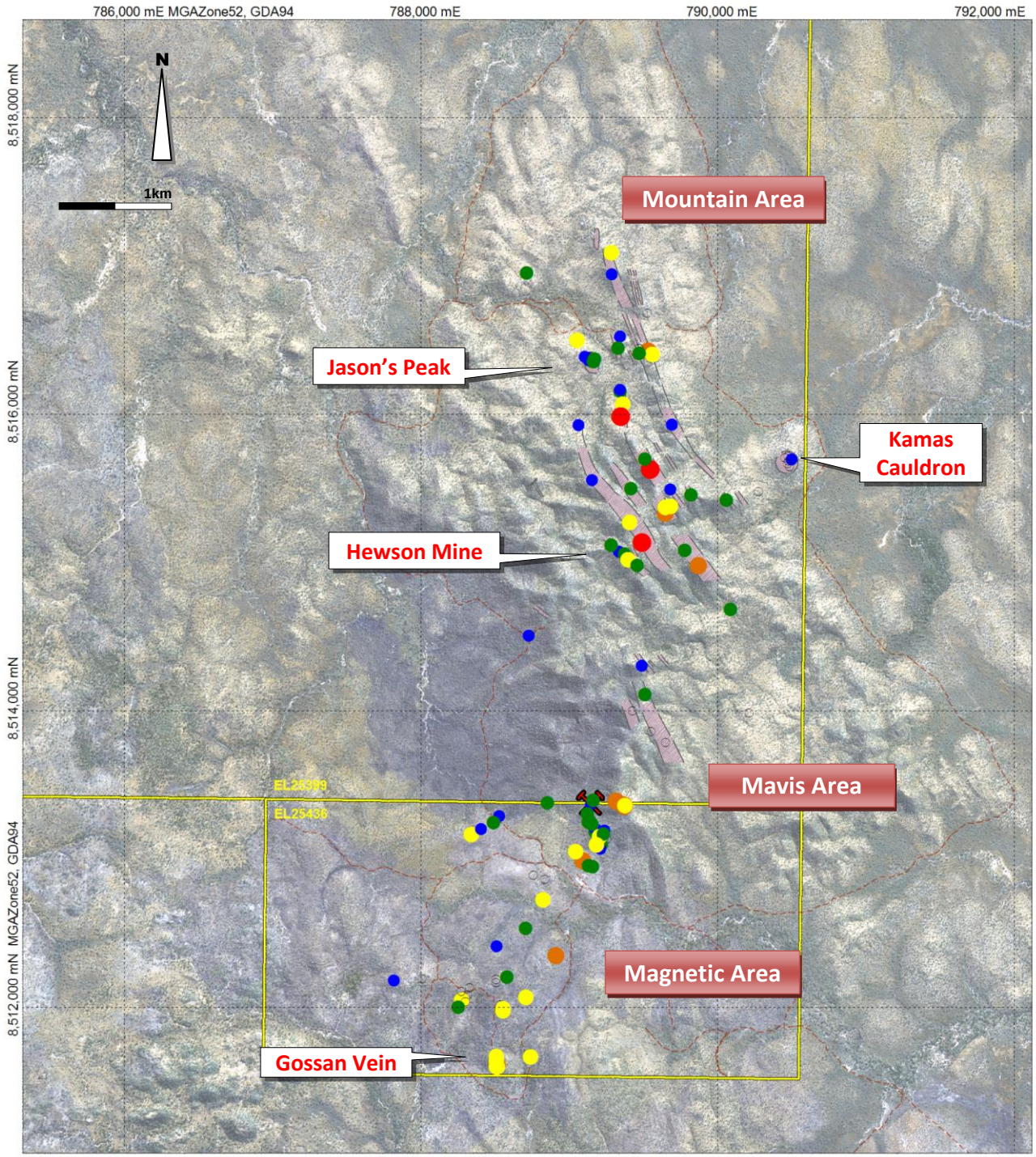
Figure 5.



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ROCK CHIP LOCATIONS
Cu ppm

Cu ppm
- > 1,000
- 500 to 1,000
- 250 to 500
- 100 to 250
- 50 to 100
- < 50

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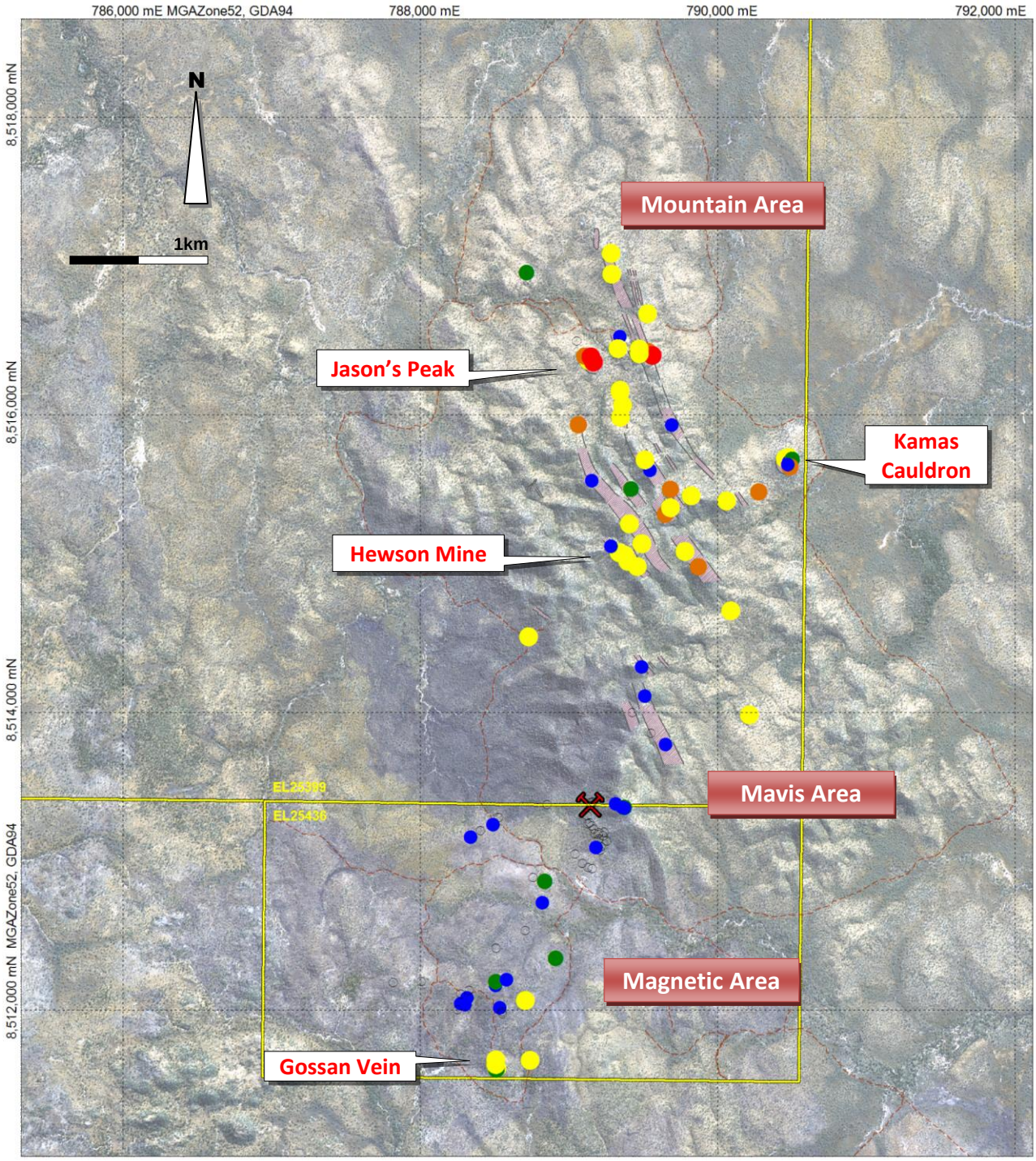
Figure 6.



Pb ppm

- > 5,000
- 1,000 to 5,000
- 200 to 1,000
- 100 to 200
- 50 to 100
- < 50

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ROCK CHIP LOCATIONS
Pb ppm

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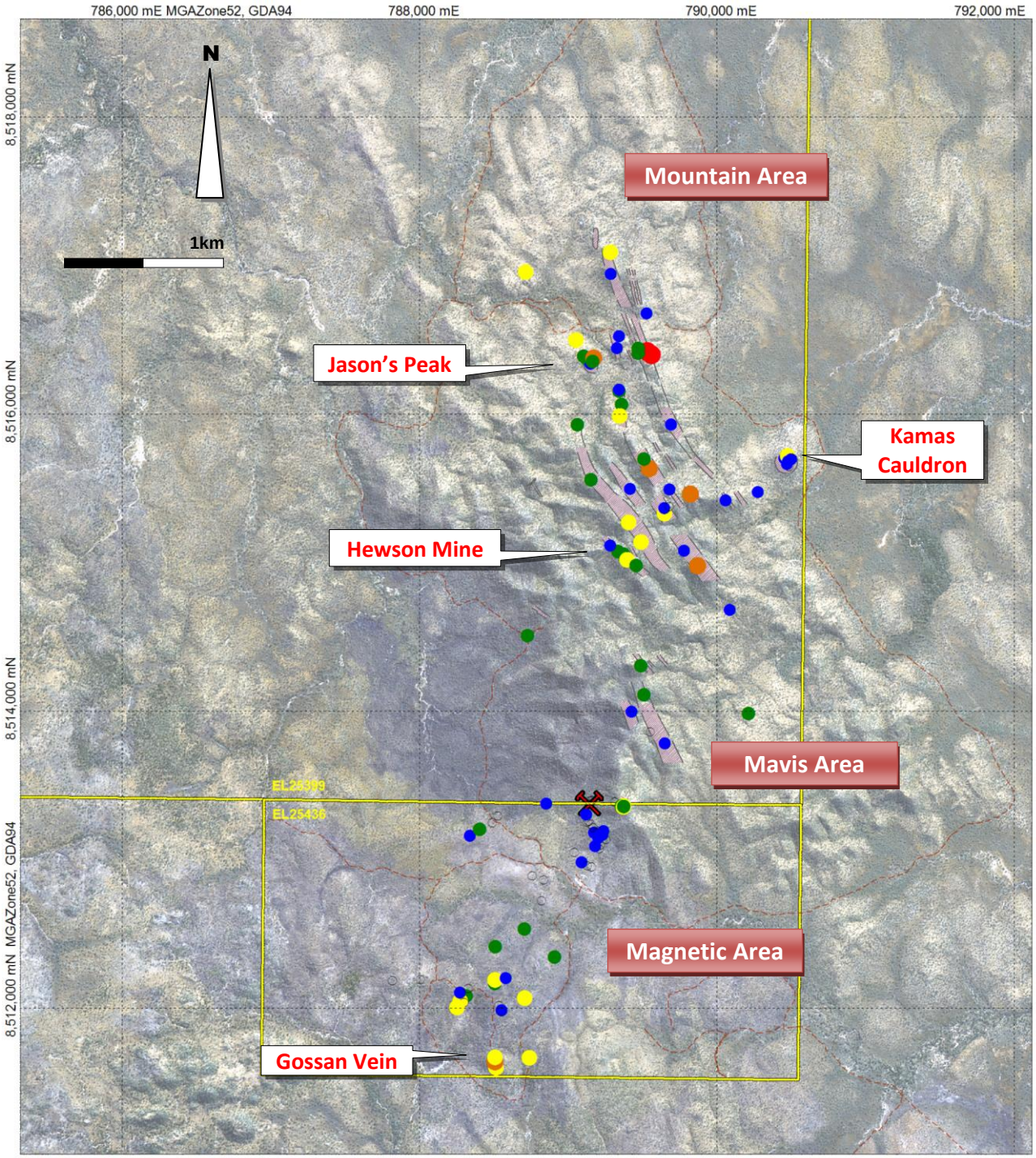
Figure 7.



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ROCK CHIP LOCATIONS
Zn ppm

Zn ppm
- > 500
- 200 to 500
- 100 to 200
- 50 to 100
- 20 to 50
- < 20

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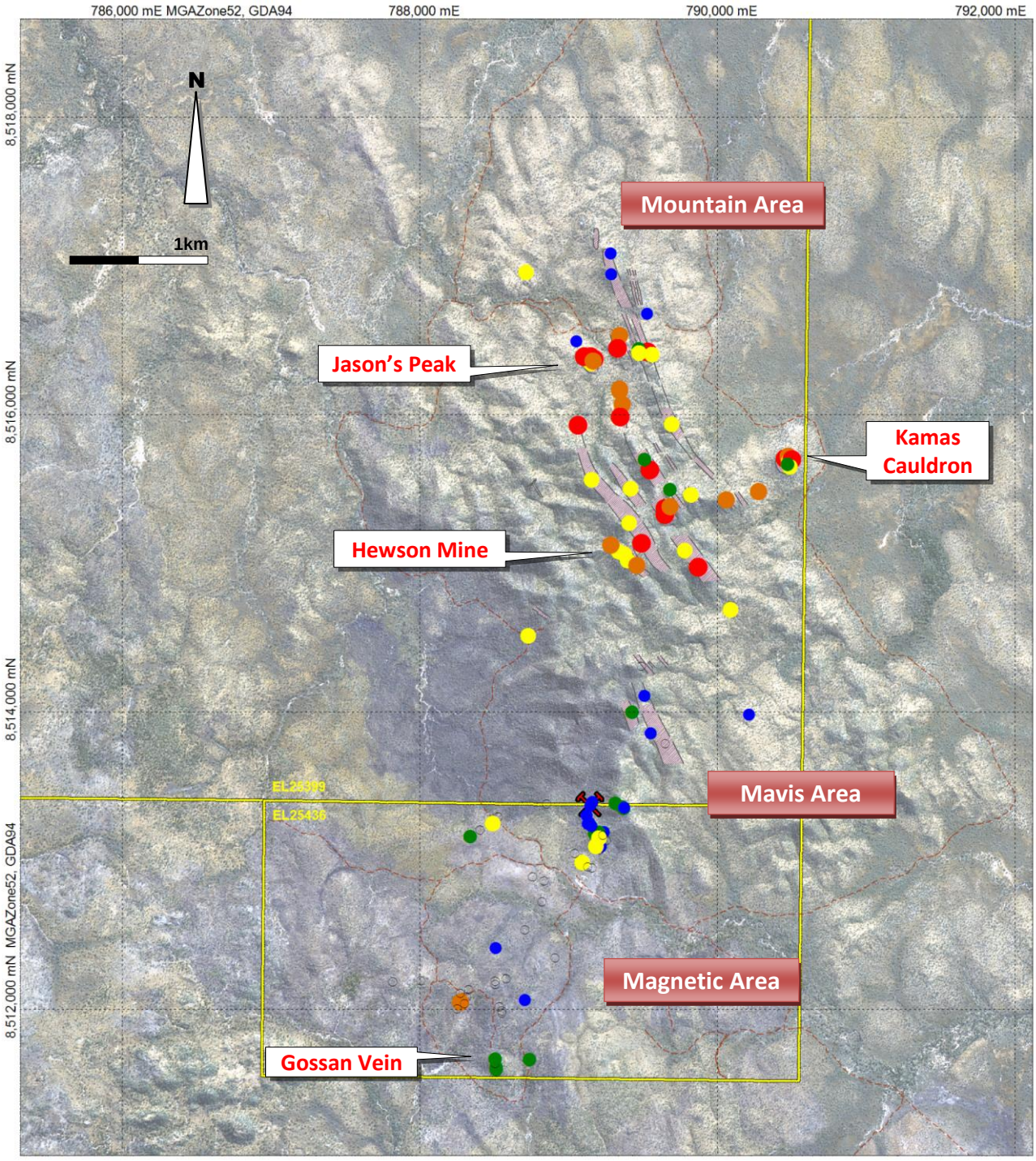
Figure 8.



As ppm

- > 4,000
- 2,000 to 4,000
- 1,000 to 2,000
- 500 to 1,000
- 250 to 500
- < 250

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ROCK CHIP LOCATIONS
As ppm

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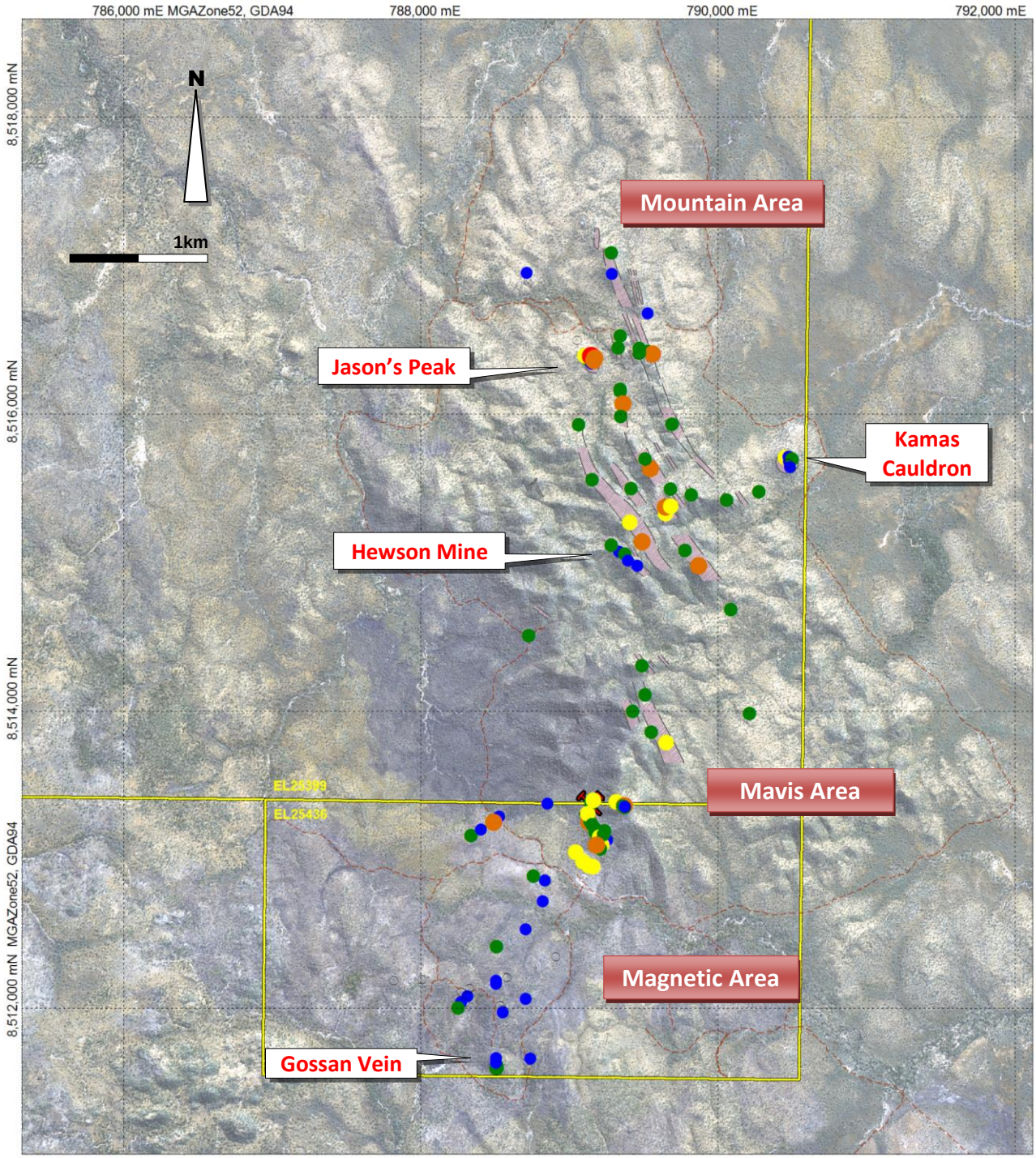
Figure 9.



Bi ppm

- > 1,000
- 100 to 1,000
- 50 to 100
- 10 to 50
- 2 to 10
- < 2

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ROCK CHIP LOCATIONS
Bi ppm

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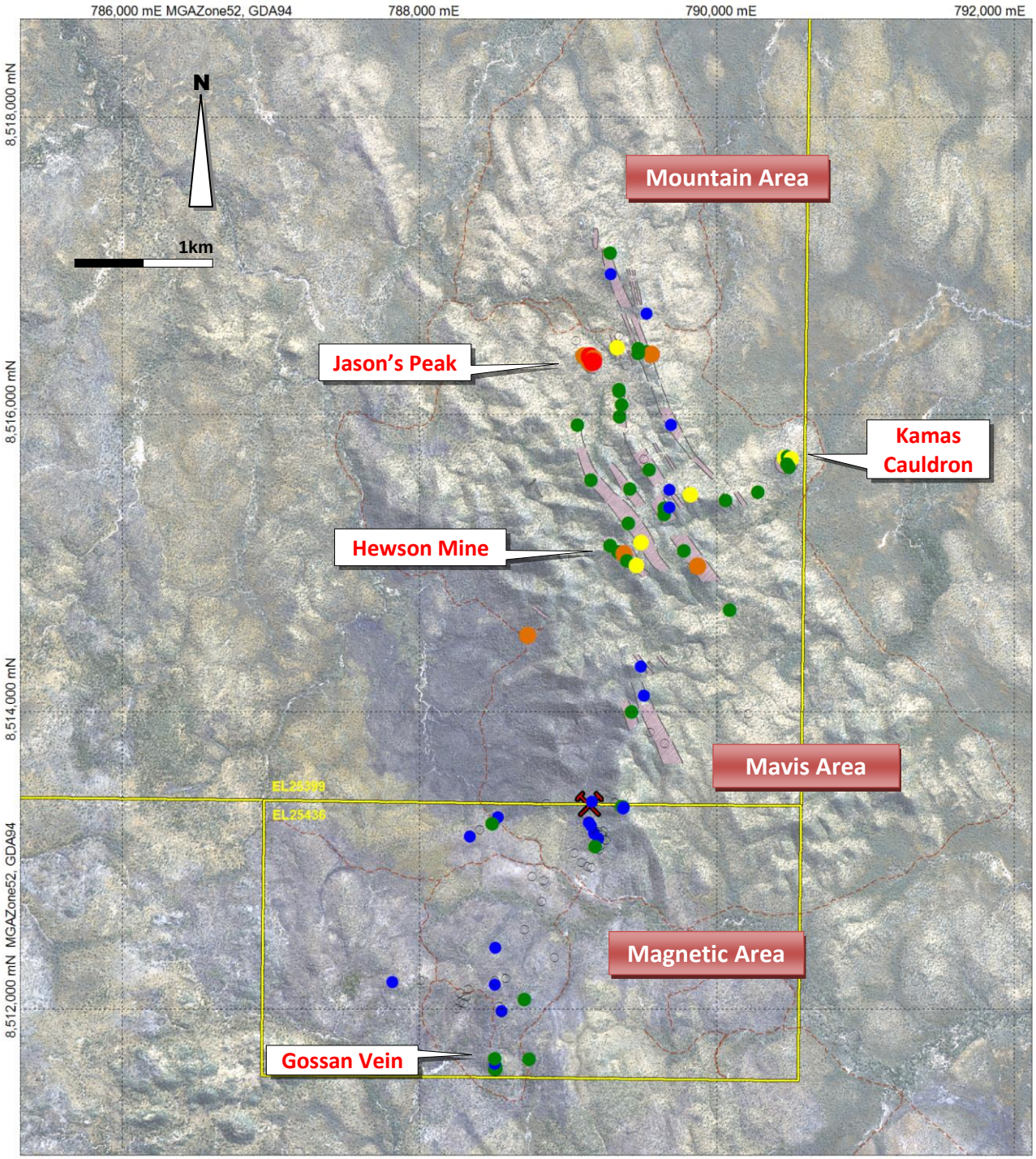
Figure 10.



Sb ppm

- > 500
- 100 to 500
- 50 to 100
- 10 to 50
- 5 to 10
- < 5

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ROCK CHIP LOCATIONS
Sb ppm

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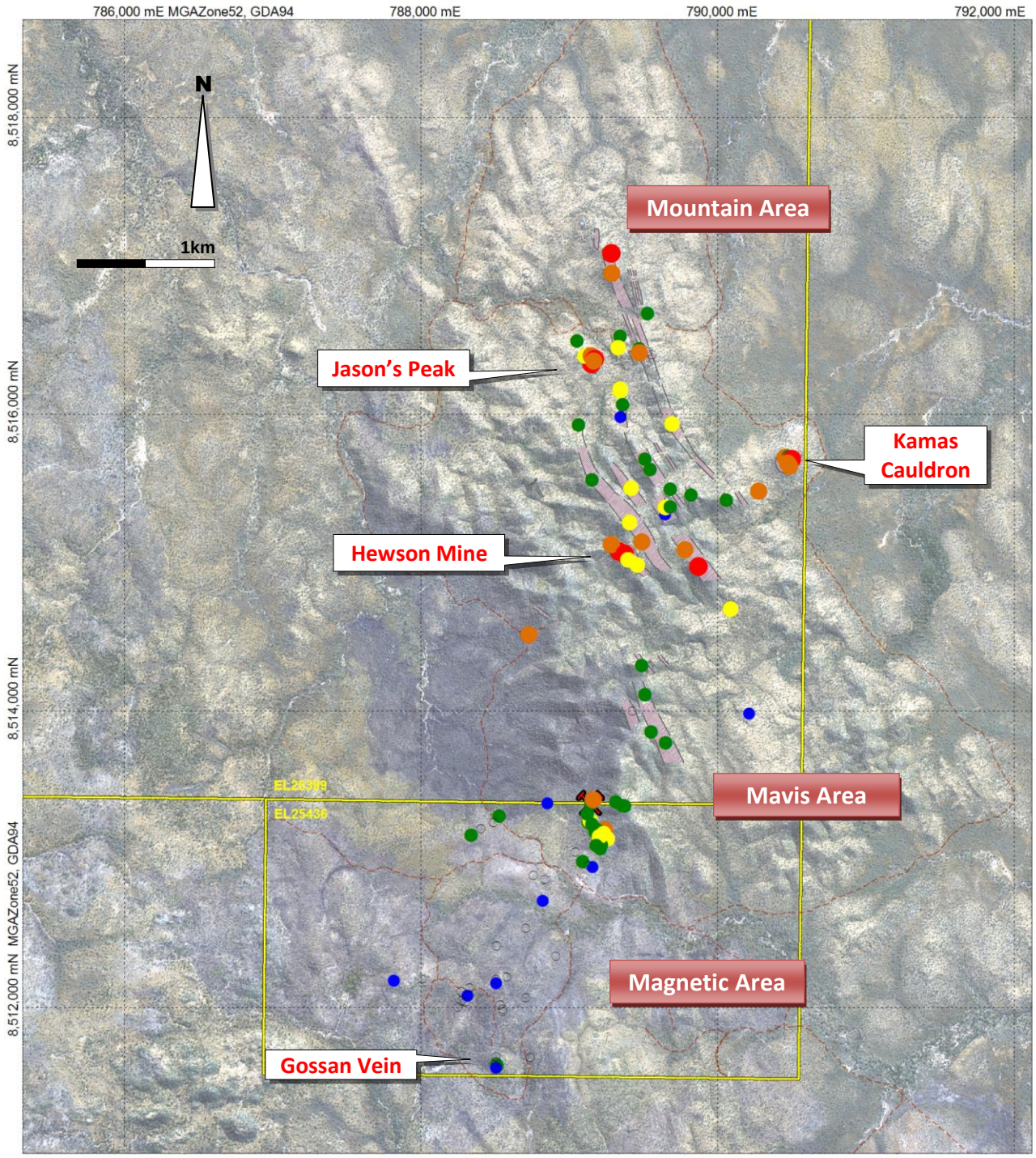
Figure 11.



Sn ppm

- > 500
- 100 to 500
- 50 to 100
- 10 to 50
- 5 to 10
- < 5

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ROCK CHIP LOCATIONS
Sn ppm

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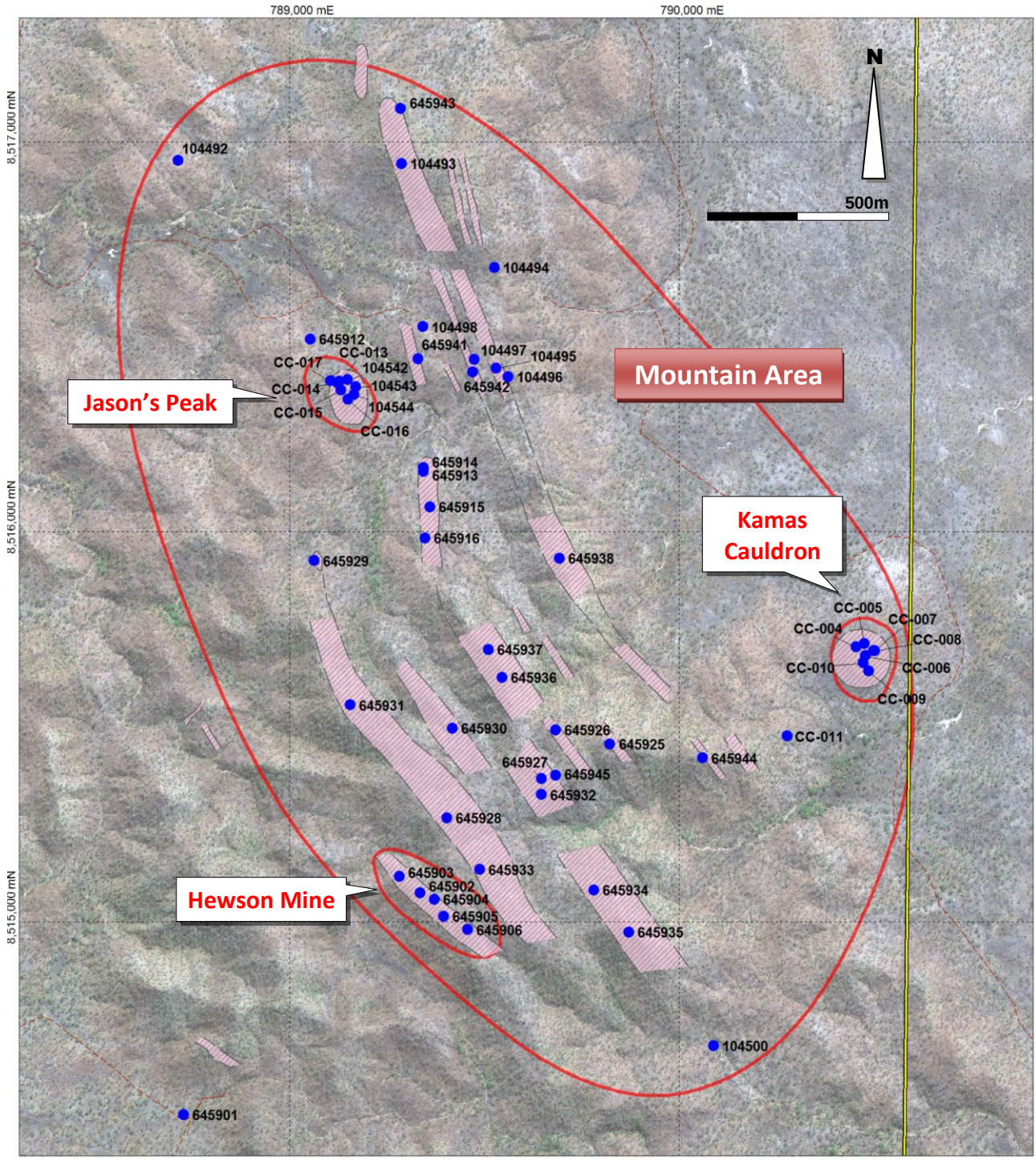
Figure 12.



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MOUNTAIN AREA
ROCK CHIP LOCATIONS

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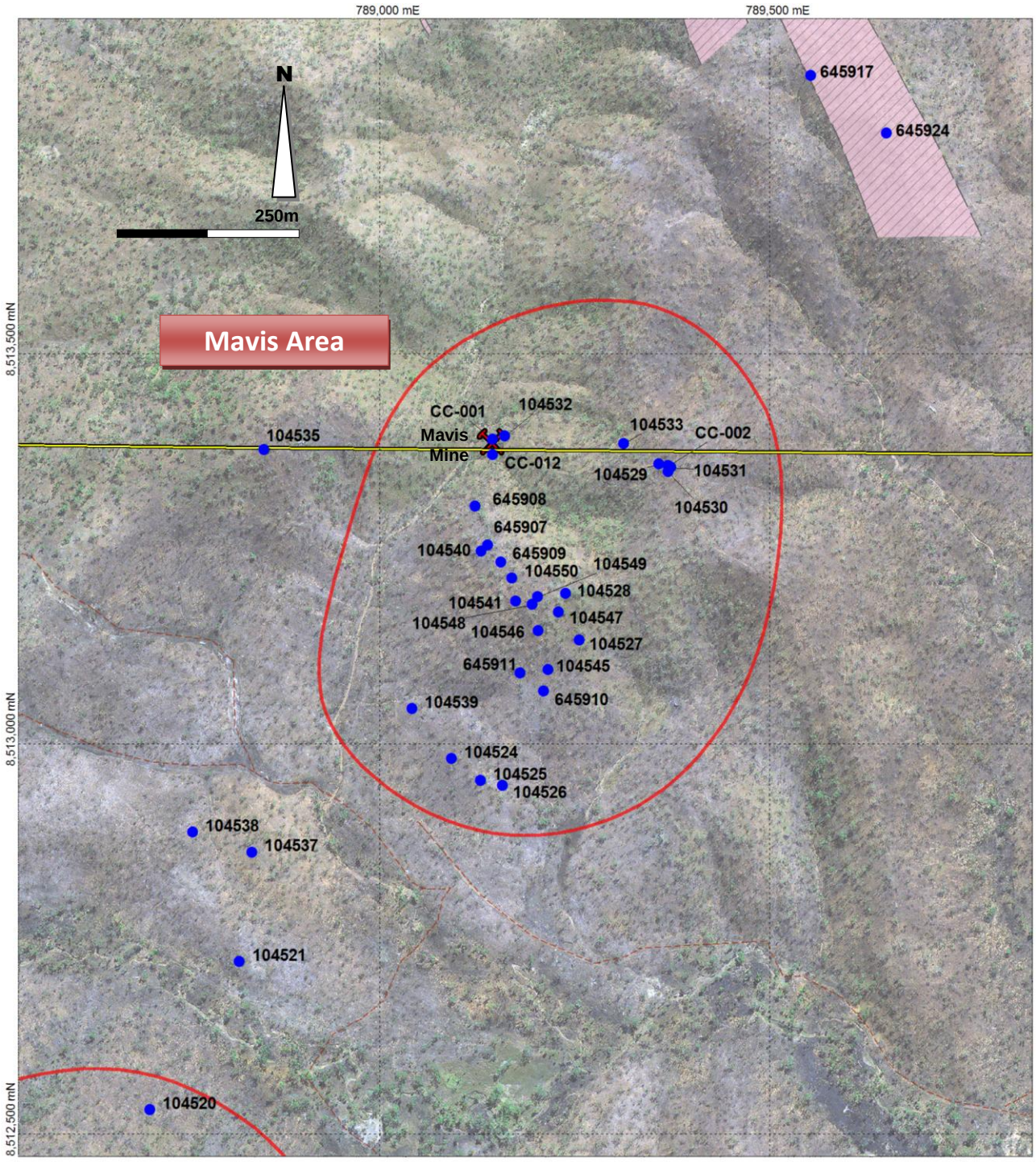
Figure 13.



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MAVIS AREA
ROCK CHIP LOCATIONS

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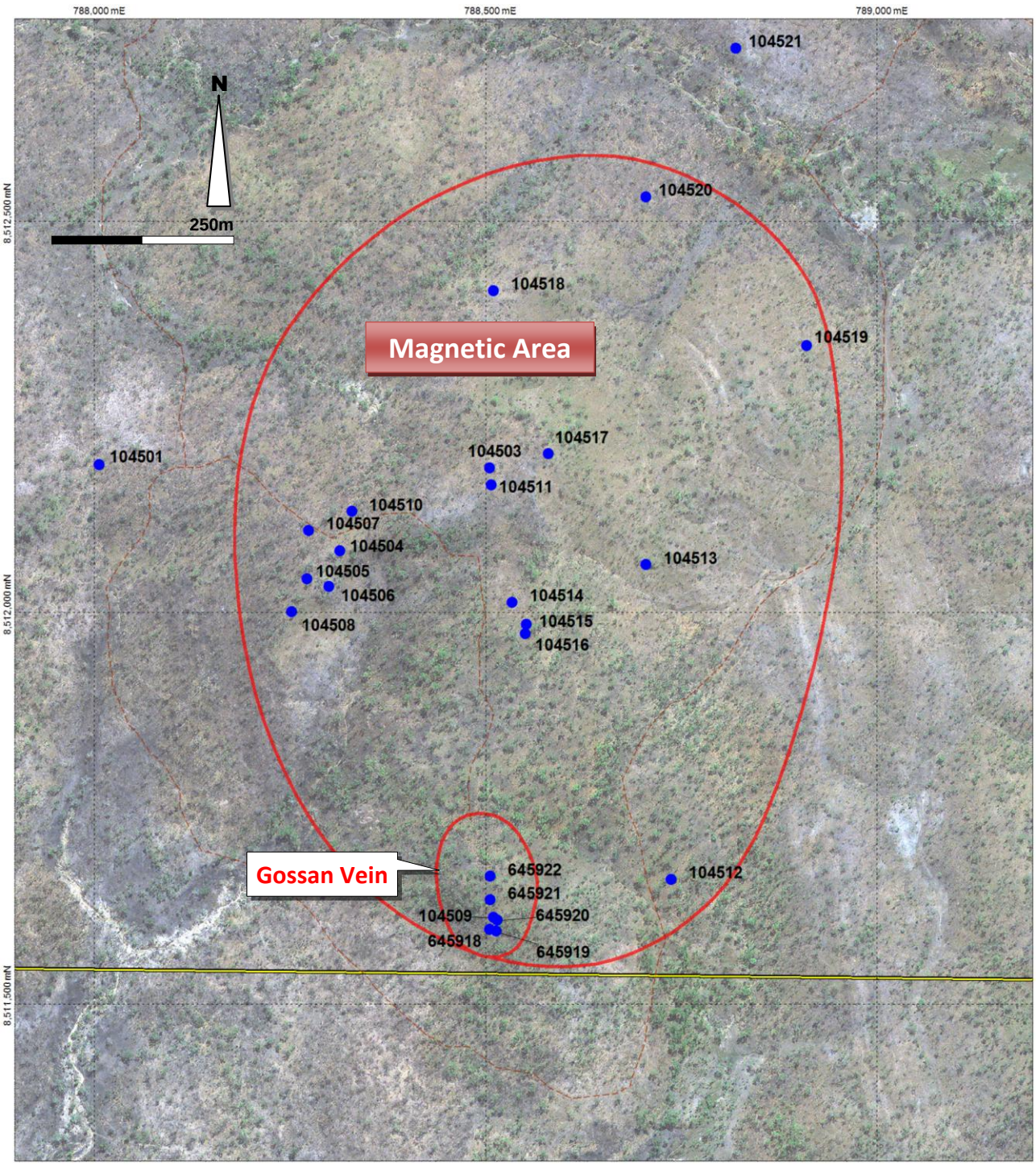
Figure 14.



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MAGNETIC AREA
ROCK CHIP LOCATIONS

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Figure 15.