

**BRITISH COLUMBIA**  
**PROSPECTORS ASSISTANCE PROGRAM**  
**MINISTRY OF ENERGY AND MINES**  
**GEOLOGICAL SURVEY BRANCH**

PROGRAM YEAR: 2000/2001

REPORT #: PAP 00-50

NAME: RICHARD LODMELL

# Biogeochemistry - Humus & Vegetation

	Humus INAA Code 2A	Vegetation INAA Code 2B	Ash Package INAA Code 2C	Base Metal Veg'n Aqua Regia-ICP Code 2C1	Ash Package Digestion ICP-MS Code 2D	Ash Package ICP-MS Au+Pt+Pd Code 2E
Au	1 ppb	0.1 ppb	5 ppb			2 ppb
Ag	2	0.2	2	0.2	0.02	0.02
Cu				1	0.01	0.01
Mo	0.5	0.05	2		0.001	0.001
Ni	10	2	50	1	0.01	0.01
Pb				1	0.01	0.01
Zn	20	2	50	1	0.01	0.01
Al					0.02	0.02
As	1	0.01	0.5		0.1	0.1
B			*(2)		5	5
Ba	100	5	50		0.1	0.1
Be					0.001	0.001
Bi					0.001	0.01
Br	1	0.01	1		1	
Ca	0.5%	0.01%	0.2%		0.01%	0.01%
Cd					0.005	0.005
Co	1	0.1	1		0.001	0.001
Cr	1	0.3	1		0.1	0.1
Cs	0.5	0.05	0.5		0.001	0.001
Fe	0.05%	0.005%	0.05%		0.001%	0.001%
Ga					0.001	0.001
Ge					0.001	0.001
Hf	0.5	0.05	0.5		0.001	0.001
Hg	0.5	0.05	1			
I					0.02	
In					0.01 ppb	0.01 ppb
Ir	5 ppb	0.1 ppb	2 ppb			
K		0.01%	0.05%		0.001%	0.001%
Li					0.5	0.5
Mg					0.001%	0.001%
Mn					0.01	0.01
Na	100	1	10		0.01%	0.01%
Nb					0.001	0.001
P						
Pd						3 ppb
Pt						2 ppb
Rb	20	1	5		0.001	0.001
Re					1 ppt	1 ppt
Ru						0.1 ppb
Sb	0.1	0.005	0.1		0.001	0.001
Sc	0.1	0.01	0.1		0.1	0.1
Se	2	0.1	2		0.1	0.1
Si					0.2	0.2
Sn					1	1
Sr	100	10	300		0.001	0.001
Ta	0.5	0.05	0.5		0.001	0.001
Te					0.001	0.001
Ti					1	1
Tl					0.001	0.001
Th	0.5	0.1	0.1		0.001	0.001
U	0.1	0.01	0.1		0.001	0.001
V					0.1	0.1
W	1	0.05	1		0.1	0.1
Y					0.001	0.001
Zr					0.001	0.001
La	0.1	0.01	0.1		0.001	0.001
Ce	1	0.1	3		0.005	0.005
Pr					0.001	0.001
Nd	3	0.3	5		0.001	0.001
Sm	0.1	0.001	0.1		0.001	0.001
Eu	0.2	0.05	0.01		0.001	0.001
Gd					0.001	0.001
Tb	0.2	0.1	0.5		0.001	0.001
Dy					0.001	0.001
Ho					0.001	0.001
Er					0.001	0.001
Tm					0.001	0.001
Yb	0.1	0.005	0.05		0.001	0.001
Lu	0.1	0.001	0.05		0.001	0.001

## Code 2A - Humus Code 2B - Vegetation

INAA provides a very cost effective, rapid means of analyzing humus or vegetation to very low detection limits for gold and many other elements useful for geochemical exploration. The organic material is dried below 60°C, macerated and a 15g aliquot is compressed into a briquette and analyzed using Code 2A or Code 2B depending on whether the material is purely organic (Code 2B) or contains mineral matter (Code 2A). These briquettes are irradiated and their gamma ray spectra are measured and quantified. The advantages of this technique are simplicity (less chance of human error and contamination, as ring is costly and the results in less of gold) and INAA is the technique with ultimate sensitivity for gold and other trace elements. Prices listed for Codes 2A and 2B are for standard 15g briquettes. For a 30g briquette, add \$2.00. Selected elements may be available at lower cost.

## Code 2C - Vegetation Ash-INAA Code 2C1 - Vegetation Ash-ICP-OES Code 2D - Vegetation Ash-ICP-MS

Some geologists prefer ashing samples at low temperature (480°C) and determining metals on the ash. This may be advantageous, particularly if base metals are also required for your gold project or for base metal exploration. Note when samples are ashed, there may be volatile loss of certain elements (Au, As, Br, Hg, Cd, etc). Results are reported on an ash weight basis. Code 2D uses a proprietary acid digestion on the ash followed by ICP-MS and extends the list of elements which are available. Not all elements may be total. This package can be quite useful for diamond exploration. Price for Code 2C1 for single element is \$5.00 with each additional element costing \$2.00.

## Code 2E

This package is similar to Code 2D but requires a different digestion of the plant ash to obtain Au, Pt and Pd to low levels. This method has been shown by Dr. Colin Durin (Consultant) to be very effective for PGE exploration.

Price \$13.00 \$16.00 \$14.00 \$ 8.00 \$20.00 \$26.00  
\*B add-on \$10.00

Handwritten note: + 2.00

Elements are all in PPM except where noted.

ACTLABS only ashes vegetation in dedicated vegetation ashing furnaces to avoid contamination.

Actlabs Pkg 2E Job #: 21042      Report#: 20729      Client: R. Lodmiell  
 Trace Element Values Are in Parts Per Million unless otherwise indicated. Negative Values Equal Not Detected at That Lower Limit.  
 Values = 999999 are greater than working range of instrument.

Sample ID:	Sample Wt.(g)	Li	Be	B	Na%	Mg%	Al%	Si	K%	Ca%	Sc	Ti	V	Cr	Mn	Fe%	Co	Ni	Cu	Zn	Ga	Ge
GMBIO-L14+00W-6	0.5	5.6	0.122	241	0.19	1.47	0.830	1,330	999999	14.7	7.1	186	16.6	5.7	1,260	1.32	12.7	51.1	579	457	2.54	0.081
GMBIO-L14+00W-8	0.5	9.5	0.278	103	0.24	2.71	1.10	461	0.976	10.4	14.0	276	28.8	14.6	1,200	2.23	25.8	115	1,140	219	4.73	0.096
GMBIO-L14+00W-S	0.5	6.3	0.360	70	0.17	2.07	1.19	536	1.28	6.54	12.1	329	31.4	10.6	1,070	2.71	23.7	93.9	662	217	5.01	0.090
GMBIO-300S+280W	0.406	4.0	0.188	252	0.21	1.97	1.06	920	3.33	11.2	7.7	322	21.5	6.4	1,990	1.76	15.8	67.5	728	775	3.54	0.113
GMBIO-300S+300W	0.228	7.2	0.153	1,030	0.23	5.09	2.52	1,750	999999	22.4	8.3	524	25.5	10.1	2,430	1.87	23.0	87.5	1,120	1,850	4.11	0.369
GMBIO-300S+320W UT STAT	0.193	11.3	0.434	756	0.27	4.52	3.17	1,340	999999	15.2	16.8	1,010	48.1	22.7	2,920	3.90	36.7	163	1,640	1,690	8.60	0.350
GMBIO-300S+320W AZ 120	0.235	43.2	0.115	1,290	0.63	5.34	2.60	1,240	999999	22.3	5.4	416	18.5	7.4	2,280	1.23	15.8	56.6	828	2,040	3.40	0.296
GMBIO-800S+20W AZ 160	0.5	5.9	0.182	330	0.32	2.40	0.768	700	999999	11.7	6.8	323	18.4	6.7	992	1.64	15.0	62.6	642	940	2.86	0.141
GMBIO-800S+20W AZ 162	0.5	5.5	0.263	285	0.59	2.29	1.70	5,020	999999	10.5	15.1	635	25.7	8.2	992	1.82	17.2	74.5	806	621	5.03	0.413
GMBIO-00N+900SB LAZ 70	0.5	5.8	0.208	189	0.22	1.57	0.995	596	999999	11.0	8.0	385	21.7	7.7	990	1.95	15.8	67.1	627	519	3.81	0.148
GMBIO-00N+900SB LAZ 102	0.5	6.6	0.228	172	0.18	2.03	1.11	709	999999	14.6	8.6	284	42.5	21.2	1,310	2.33	17.9	68.0	1,050	661	4.05	0.111
GMBIO-1000S+20E	0.5	2.5	0.048	426	0.09	2.48	0.603	686	999999	25.1	2.6	130	14.4	7.9	1,360	0.661	5.84	23.0	419	563	1.17	0.098
GMBIO-500S+380W	0.400	8.1	0.171	434	1.14	1.77	1.23	2,020	999999	16.5	6.5	298	36.1	15.5	853	1.67	12.0	46.3	850	453	2.64	0.098
GMBIO-500S+400W	0.433	7.0	0.187	316	0.99	1.36	1.34	1,850	999999	16.2	7.8	334	42.0	16.2	695	2.06	13.3	46.8	826	380	3.41	0.107
GMBIO-600S+380W	0.5	6.5	0.223	347	0.70	1.93	1.24	1,940	999999	13.9	7.4	297	40.4	17.1	947	2.14	14.9	60.4	888	513	3.51	0.098
GMBIO-600S+400W	0.5	5.2	0.207	175	0.32	1.53	1.02	1,010	2.92	17.5	7.5	339	44.0	17.6	765	2.35	14.9	53.9	859	396	3.55	0.109
GMBIO-700S+380W AZ 290	0.163	15.9	0.342	1,150	0.83	3.21	2.44	2,470	9.58	27.6	13.6	926	86.2	39.9	1,880	3.85	25.5	109	1,810	1,120	6.59	0.222
GMBIO-700S+380W BY STAT	0.5	5.5	0.224	98	0.07	1.79	1.28	328	2.25	10.4	8.4	504	49.5	23.6	3,030	2.76	16.8	66.3	910	364	4.53	0.078
GMBIO-800S+380W ONLINE	0.285	4.5	0.232	308	0.14	2.32	2.05	1,070	3.18	8.32	8.4	594	49.5	18.9	2,490	2.38	17.5	63.1	978	676	4.38	0.126
GMBIO-800S+380W BY STAT	0.5	4.7	0.393	80	0.12	2.39	1.75	894	2.96	3.93	9.0	504	56.9	10.7	928	2.86	17.9	46.0	175	155	5.33	0.075
GMBIO-900S+380W ONLINE	0.5	4.5	0.196	158	0.15	3.20	1.14	1,060	3.11	14.6	6.8	295	38.1	19.7	4,940	1.82	14.5	60.2	843	695	3.56	0.081
GMBIO-900S+380W AZ 145	0.5	4.5	0.131	285	0.22	1.90	1.36	1,460	999999	15.4	5.9	304	31.9	11.6	1,990	1.45	10.7	36.9	636	402	2.79	0.094
GMBIO-1000S+400	0.5	4.4	0.135	293	0.22	1.60	1.03	1,410	2.86	22.7	6.5	318	35.3	17.5	2,070	1.41	12.1	59.4	521	1,060	2.86	0.073
GMBIO-1000S+380	0.379	4.5	0.112	298	0.22	1.46	0.713	1,460	2.59	24.8	5.5	332	33.3	16.0	1,170	1.20	9.95	40.8	455	850	2.65	0.056
GMBIO-1100S+380	0.228	10.3	0.233	925	0.48	3.32	2.11	3,560	8.91	44.6	10.1	640	57.7	33.6	3,560	1.97	16.4	75.8	867	1,590	4.77	0.205
GMBIO-1200S+340	0.5	5.9	0.229	352	0.23	1.59	2.09	1,540	999999	5.96	9.4	503	54.3	20.9	2,050	2.28	12.7	39.6	399	628	5.22	0.092
GMBIO-1200S+360	0.252	5.4	0.204	694	0.26	2.87	2.25	2,070	999999	9.99	7.1	521	46.2	17.8	3,190	1.69	16.3	59.1	636	845	3.79	0.115
GMBIO-1300S+240 ONLINE	0.244	14.9	0.640	989	0.41	4.32	5.07	2,320	999999	11.4	19.7	1,460	129	72.5	5,150	5.22	40.1	155	1,890	857	11.4	0.317
GMBIO-1300S+240W AZ 145	0.5	6.2	0.270	270	0.20	1.91	1.73	1,340	999999	9.93	9.1	554	55.8	26.7	4,820	2.35	16.3	65.6	641	400	5.26	0.133
GMBIO-1400S+260	0.5	6.2	0.359	139	0.21	1.39	1.57	1,170	2.86	8.26	11.3	634	65.2	20.9	1,250	2.87	17.5	60.9	363	411	5.70	0.107
GMBIO-1400S+280	0.5	4.6	0.180	216	0.21	1.32	0.972	1,030	3.33	17.9	6.8	403	40.8	11.7	1,640	1.57	10.9	35.9	253	507	3.24	0.081
GMBIO-1400S+280r	0.273	5.1	0.187	275	0.21	1.25	0.934	1,410	3.18	17.8	6.8	430	40.7	10.5	1,470	1.53	10.2	34.3	283	623	3.18	0.077
GMBIO-1500S+320W AZ 300	0.5	3.5	0.153	213	0.16	1.30	0.699	1,610	4.87	19.8	5.7	273	29.4	11.6	1,450	1.18	9.01	36.5	349	574	2.36	0.090
GMBIO-1500S+320W AZ 20	0.5	3.9	0.185	164	0.13	2.26	1.23	1,260	999999	13.5	6.9	407	44.0	18.2	2,000	1.69	12.1	45.8	467	728	3.39	0.096
GMBIO-1500S+300	0.5	2.9	0.102	309	0.24	0.841	0.724	2,080	3.15	24.9	5.3	277	29.2	11.9	874	1.05	7.63	28.1	308	504	1.97	0.062

Certified By:



D. D'Anna, Dipl. T.  
 ICPMS Technical Manager, Activation Laboratories Ltd.

Date: 23 Nov 2000

This report shall not be reproduced except in full without the written approval of the laboratory.  
 Unless otherwise instructed, samples will be disposed of 90 days from the date of this report.

## Actlabs Pkg 2E Job #: 21042

Trace Element Values Are in Parts Per Million unless other Values = 999999 are greater than working range of instrument

Sample ID:	Sample Wt.(g)	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Pd ppb	Ag	Cd	In ppb	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
GMBIO-L14+00W-6	0.5	42.2	42.5	9.69	613	6.18	2.59	0.227	10.5	39	0.26	7.68	26.4	-1	0.923	0.279	0.420	204	5.52	11.3	1.54	6.53	1.49
GMBIO-L14+00W-6	0.5	21.9	33.4	10.9	493	11.5	2.36	0.253	14.8	56	0.35	3.33	47.4	-1	0.991	0.270	0.482	212	7.01	14.2	1.98	8.96	2.28
GMBIO-L14+00W-S	0.5	14.4	16.3	11.1	320	13.3	5.97	0.461	8.59	78	0.25	3.67	38.3	-1	1.06	0.143	0.774	174	11.3	21.8	3.27	14.1	3.19
GMBIO-300S+280W	0.406	39.5	27.7	10.6	801	6.89	3.26	0.270	15.1	40	0.38	11.3	42.9	-1	1.52	0.373	0.562	125	6.55	13.7	1.83	7.64	1.66
GMBIO-300S+300W	0.228	79.8	124	23.8	3,330	5.77	5.66	0.484	40.4	80	2.34	12.9	44.2	-2	2.06	2.02	0.959	597	6.35	14.9	1.72	6.93	1.45
GMBIO-300S+320W UT STAT	0.193	71.5	80.4	26.2	2,750	11.5	12.0	0.901	33.9	176	1.55	15.8	74.1	-3	3.63	1.69	1.60	763	10.9	24.2	3.01	12.4	2.78
GMBIO-300S+320W AZ 120	0.235	75.9	89.1	58.2	2,920	3.52	4.07	0.400	46.6	84	1.64	20.4	26.5	6	1.37	1.37	2.04	444	3.94	10.2	1.02	4.12	0.881
GMBIO-800S+20W AZ 160	0.5	30.6	26.8	15.0	1,080	7.68	3.44	0.315	17.9	49	0.28	17.4	32.5	-1	1.18	0.378	0.622	147	7.43	15.2	2.06	8.79	1.95
GMBIO-800S+20W AZ 162	0.5	39.3	26.0	20.6	835	9.47	7.55	0.803	14.3	78	0.33	9.76	43.9	-1	1.53	0.355	0.906	54.6	7.85	21.0	2.26	9.62	2.19
GMBIO-00N+900SB LAZ 70	0.5	29.1	27.9	12.8	1,070	7.52	4.03	0.369	12.5	46	0.32	7.35	41.7	-1	1.37	0.428	0.769	144	7.51	15.1	2.06	8.51	1.86
GMBIO-00N+900SB LAZ 102	0.5	32.9	44.9	11.4	1,650	7.62	1.47	0.236	16.3	38	0.34	6.97	46.2	-1	1.85	0.641	0.717	171	8.09	16.4	2.19	8.95	1.97
GMBIO-1000S+20E	0.5	49.2	78.2	9.77	1,420	1.59	1.00	0.162	11.9	17	11.9	11.7	11.1	-1	0.605	0.572	0.290	191	1.79	4.07	0.464	1.80	0.374
GMBIO-500S+380W	0.400	50.0	47.0	15.0	836	5.28	1.27	0.210	14.9	29	0.26	5.31	26.2	2	3.22	0.348	0.792	220	5.43	11.4	1.47	6.13	1.36
GMBIO-500S+400W	0.433	59.0	48.7	15.8	692	6.53	1.23	0.208	16.2	25	0.26	4.85	29.4	-1	1.61	0.316	1.07	229	7.05	14.6	1.91	7.80	1.70
GMBIO-600S+380W	0.5	43.7	41.5	12.5	827	6.29	0.966	0.238	13.8	23	0.26	6.90	35.1	-1	1.48	0.369	0.847	131	6.98	14.4	1.87	7.70	1.69
GMBIO-600S+400W	0.5	31.5	49.9	10.9	787	7.92	1.72	0.263	13.5	42	0.25	5.82	35.8	-1	1.51	0.352	0.750	188	8.53	17.1	2.32	9.68	2.10
GMBIO-700S+380W AZ 290	0.163	100	126	23.0	3,430	10.7	7.08	0.857	43.4	96	0.62	22.7	70.0	-3	4.54	1.86	1.38	884	11.3	25.7	3.02	12.2	2.64
GMBIO-700S+380W BY STAT	0.5	25.8	23.1	10.2	768	5.59	1.81	0.401	17.1	37	0.50	3.93	44.0	1	1.52	0.271	0.984	135	6.17	13.1	1.75	7.09	1.49
GMBIO-800S+380W ONLINE	0.285	36.9	18.7	11.9	1,220	5.78	2.19	0.481	17.6	32	1.35	8.57	42.9	-2	1.78	0.378	0.891	290	5.92	13.0	1.64	6.61	1.39
GMBIO-800S+380W BY STAT	0.5	14.3	9.2	11.9	551	8.05	2.52	0.236	1.99	36	0.34	1.33	20.9	-1	0.404	0.190	1.04	340	7.38	15.4	2.03	8.53	1.94
GMBIO-900S+380W ONLINE	0.5	34.2	36.1	10.8	969	4.62	0.914	0.188	15.4	25	3.05	6.28	31.2	-1	1.15	0.343	0.913	80.3	5.01	10.8	1.39	5.64	1.20
GMBIO-900S+380W AZ 145	0.5	45.4	32.7	15.1	828	3.19	0.711	0.249	11.5	23	0.68	4.83	23.7	-1	1.75	0.304	1.10	141	3.91	8.28	1.03	4.07	0.847
GMBIO-1000S+400	0.5	38.4	59.0	14.9	944	3.94	1.14	0.190	9.30	26	0.21	6.75	28.0	-1	1.80	0.281	1.24	145	4.52	9.21	1.18	4.69	0.990
GMBIO-1000S+380	0.379	36.3	61.9	12.0	1,170	3.89	1.90	0.212	11.1	25	0.17	9.53	20.9	-1	0.875	0.394	0.911	169	4.13	8.64	1.05	4.27	0.917
GMBIO-1100S+380	0.228	106	180	27.0	2,010	5.71	4.25	0.499	16.5	83	0.33	14.1	43.2	-2	3.57	1.03	1.84	925	6.88	15.8	1.77	6.89	1.47
GMBIO-1200S+340	0.5	25.8	12.9	22.5	1,060	5.23	1.40	0.255	10.7	30	0.87	3.44	26.8	-1	0.760	0.336	1.54	93.7	5.36	11.8	1.48	6.08	1.33
GMBIO-1200S+360	0.252	113	26.0	22.9	1,760	5.29	1.31	0.265	22.7	27	2.42	7.13	31.7	-2	1.68	0.541	2.27	137	5.15	11.7	1.42	5.60	1.22
GMBIO-1300S+240 ONLINE	0.244	79.4	61.3	58.3	2,770	12.0	5.72	0.486	46.3	81	1.38	18.1	120	3	3.97	1.43	3.24	799	14.3	30.4	3.84	15.3	3.23
GMBIO-1300S+240W AZ 145	0.5	55.6	26.0	18.5	910	6.30	1.30	0.306	13.8	31	3.17	4.28	47.5	1	2.26	0.380	1.64	87.9	7.19	15.4	1.99	7.99	1.68
GMBIO-1400S+260	0.5	22.0	17.8	14.7	393	11.0	1.36	0.173	8.88	29	0.16	2.92	34.8	-1	2.11	0.147	1.51	140	11.2	23.6	3.05	12.5	2.71
GMBIO-1400S+280	0.5	34.7	39.6	12.9	528	6.38	0.933	0.176	6.96	29	0.14	5.21	22.8	-1	2.69	0.180	1.12	155	6.56	14.0	1.77	7.35	1.59
GMBIO-1400S+280r	0.273	35.4	46.9	14.0	541	6.00	2.57	0.169	6.92	43	0.16	5.83	22.5	-2	2.70	0.160	1.04	328	5.69	12.8	1.52	6.17	1.36
GMBIO-1500S+320W AZ 300	0.5	35.3	55.7	11.3	569	3.87	0.813	0.161	6.38	14	0.43	7.34	34.5	-1	1.42	0.469	0.772	117	4.29	9.08	1.11	4.48	0.951
GMBIO-1500S+320W AZ 20	0.5	30.6	33.4	13.7	930	3.71	0.965	0.216	11.8	26	0.47	5.16	32.8	-1	1.65	0.349	0.997	89.2	4.09	9.20	1.15	4.64	0.941
GMBIO-1500S+300	0.5	44.1	69.2	10.2	611	3.26	1.25	0.178	6.94	30	0.20	6.31	16.2	-1	0.982	0.324	0.583	222	3.60	7.63	0.910	3.66	0.801

## Actlabs Pkg 2E Job #: 21042

Trace Element Values Are in Parts Per Million unless other Values = 999999 are greater than working range of instrument

Sample ID:	Sample Wt.(g)	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re ppb	Pt ppb	Au ppb	Tl	Pb	Bi	Th	U
GMBIO-L14+00W-6	0.5	0.430	1.48	0.230	1.21	0.236	0.677	0.089	0.544	0.082	0.076	0.003	0.4	57.7	4	82	0.154	51.5	0.11	0.527	0.272
GMBIO-L14+00W-8	0.5	0.745	2.30	0.392	2.26	0.444	1.30	0.182	1.10	0.166	0.089	0.004	0.4	115	6	187	0.182	25.3	0.10	0.625	0.513
GMBIO-L14+00W-S	0.5	0.954	3.14	0.493	2.77	0.542	1.54	0.204	1.24	0.188	0.184	0.004	0.4	21.9	7	51	0.273	34.3	0.12	0.975	0.487
GMBIO-300S+280W	0.406	0.458	1.60	0.246	1.38	0.257	0.726	0.101	0.595	0.087	0.102	0.004	0.6	33.2	9	24	0.163	91.8	0.18	0.412	0.436
GMBIO-300S+300W	0.228	0.459	1.40	0.216	1.15	0.217	0.625	0.084	0.536	0.081	0.142	0.005	0.9	86.9	14	46	1.18	62.0	0.41	0.715	2.25
GMBIO-300S+320W UT STAT	0.193	0.843	2.68	0.420	2.30	0.430	1.24	0.175	1.04	0.160	0.336	0.006	1.5	81.0	28	280	1.27	97.4	0.48	0.990	0.886
GMBIO-300S+320W AZ 120	0.235	0.282	0.866	0.129	0.718	0.131	0.364	0.050	0.304	0.046	0.101	0.005	0.9	61.6	6	24	1.10	51.1	0.23	0.663	0.411
GMBIO-800S+20W AZ 160	0.5	0.520	1.91	0.285	1.57	0.299	0.849	0.111	0.653	0.097	0.101	0.004	0.5	109	6	6	0.179	108	0.14	0.652	0.419
GMBIO-800S+20W AZ 162	0.5	0.652	2.18	0.340	1.87	0.353	1.03	0.140	0.825	0.126	0.217	0.021	0.6	75.9	35	5	0.071	104	0.17	0.687	0.541
GMBIO-900N+900SB LAZ 70	0.5	0.527	1.85	0.279	1.51	0.286	0.811	0.106	0.648	0.099	0.115	0.006	0.6	52.6	4	3	0.109	112	0.21	0.654	0.416
GMBIO-900N+900SB LAZ 102	0.5	0.534	1.88	0.281	1.53	0.287	0.817	0.109	0.647	0.099	0.038	0.005	0.4	29.6	4	33	0.396	128	1.11	0.566	0.545
GMBIO-1000S+20E	0.5	0.117	0.386	0.058	0.301	0.055	0.159	0.022	0.125	0.020	0.027	0.002	0.3	15.2	3	11	0.397	18.9	0.88	0.219	0.161
GMBIO-500S+380W	0.400	0.368	1.33	0.197	1.06	0.198	0.571	0.074	0.451	0.067	0.042	0.004	0.6	111	9	22	0.619	291	1.12	0.768	0.387
GMBIO-500S+400W	0.433	0.482	1.65	0.243	1.28	0.246	0.690	0.090	0.551	0.083	0.044	0.005	0.7	75.3	6	40	0.538	93.3	1.06	0.622	0.379
GMBIO-600S+380W	0.5	0.456	1.60	0.242	1.30	0.241	0.680	0.088	0.549	0.082	0.036	0.006	0.6	58.5	8	31	0.354	91.6	0.88	0.701	0.387
GMBIO-600S+400W	0.5	0.568	2.06	0.308	1.62	0.304	0.870	0.116	0.682	0.101	0.051	0.005	0.5	26.3	21	50	0.338	97.5	0.72	0.603	0.375
GMBIO-700S+380W AZ 290	0.163	0.801	2.64	0.382	2.08	0.385	1.11	0.146	0.910	0.141	0.182	0.009	1.4	85.8	14	50	2.03	170	6.56	1.30	3.42
GMBIO-700S+380W BY STAT	0.5	0.408	1.40	0.208	1.11	0.216	0.645	0.086	0.549	0.081	0.052	0.003	0.6	27.3	12	100	0.382	73.4	0.48	0.604	0.464
GMBIO-800S+380W ONLINE	0.285	0.410	1.38	0.202	1.12	0.214	0.627	0.087	0.530	0.080	0.054	0.003	0.7	39.8	7	42	0.838	65.8	0.66	0.655	0.462
GMBIO-800S+380W BY STAT	0.5	0.585	1.97	0.299	1.63	0.320	0.945	0.125	0.798	0.118	0.048	0.005	0.3	3.90	-2	8	0.241	5.41	0.42	1.19	0.886
GMBIO-900S+380W ONLINE	0.5	0.329	1.17	0.172	0.905	0.173	0.510	0.066	0.413	0.061	0.026	0.003	0.5	22.0	5	34	0.559	78.4	0.48	0.470	0.365
GMBIO-900S+380W AZ 145	0.5	0.239	0.835	0.124	0.638	0.120	0.346	0.045	0.277	0.042	0.023	0.004	0.5	27.2	6	33	0.191	34.3	0.28	0.426	0.282
GMBIO-1000S+400	0.5	0.273	0.998	0.142	0.750	0.139	0.397	0.053	0.320	0.050	0.032	0.004	0.5	20.2	6	22	0.390	61.9	0.66	0.468	0.321
GMBIO-1000S+380	0.379	0.268	0.926	0.139	0.720	0.138	0.389	0.053	0.321	0.048	0.057	0.004	0.6	33.0	5	23	0.062	36.7	0.71	0.468	0.286
GMBIO-1100S+380	0.228	0.492	1.46	0.204	1.09	0.207	0.574	0.077	0.479	0.080	0.101	0.009	1.0	55.8	7	38	0.196	91.3	4.27	0.976	0.637
GMBIO-1200S+340	0.5	0.386	1.33	0.196	1.06	0.196	0.569	0.075	0.468	0.067	0.042	0.006	0.4	18.6	3	8	0.705	26.5	0.52	0.689	0.327
GMBIO-1200S+360	0.252	0.345	1.22	0.181	0.992	0.183	0.538	0.071	0.436	0.070	0.038	0.006	0.8	39.4	6	17	0.371	47.8	1.05	0.651	0.381
GMBIO-1300S+240 ONLINE	0.244	0.984	3.12	0.448	2.37	0.445	1.32	0.175	1.14	0.170	0.145	0.012	1.4	72.4	15	149	3.96	112	5.81	1.75	1.77
GMBIO-1300S+240W AZ 145	0.5	0.464	1.64	0.238	1.26	0.242	0.679	0.090	0.561	0.083	0.038	0.005	0.5	24.7	7	26	0.723	67.3	0.70	0.771	0.529
GMBIO-1400S+260	0.5	0.767	2.74	0.409	2.16	0.412	1.20	0.154	0.964	0.140	0.045	0.007	0.4	14.5	5	16	0.864	57.4	0.43	0.804	0.474
GMBIO-1400S+280	0.5	0.456	1.63	0.241	1.27	0.243	0.689	0.089	0.553	0.083	0.033	0.004	0.3	15.6	4	12	0.595	41.9	0.29	0.555	0.324
GMBIO-1400S+280r	0.273	0.410	1.40	0.209	1.12	0.214	0.613	0.078	0.491	0.077	0.061	0.003	0.5	16.1	-4	12	0.666	38.4	0.71	0.526	0.292
GMBIO-1500S+320W AZ 300	0.5	0.257	0.976	0.138	0.735	0.140	0.395	0.050	0.316	0.048	0.023	0.004	0.4	15.8	3	48	0.378	79.5	0.57	0.395	0.340
GMBIO-1500S+320W AZ 20	0.5	0.259	0.907	0.131	0.706	0.136	0.418	0.055	0.361	0.055	0.029	0.006	0.4	17.9	7	36	0.753	55.5	0.46	0.474	0.401
GMBIO-1500S+300	0.5	0.241	0.840	0.120	0.643	0.122	0.343	0.046	0.286	0.042	0.038	0.004	0.4	31.8	3	16	0.114	37.8	0.45	0.402	0.247

## D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, pages 6 and 7.

## SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential subject to the provisions of the *Freedom of Information Act*.

Name RICHARD LODMELL Reference Number \_\_\_\_\_

**LOCATION/COMMODITIES**

Project Area (as listed in Part A) KAMLOOPS MINING DIVISION MINFILE No. if applicable \_\_\_\_\_

Location of Project Area NTS 92I/9W Lat 50° 37.5' Long 120° 28'

Description of Location and Access 12 Km SW FROM KAMLOOPS AND 2KM SOUTH OF SUGAR LOAF HILL. ACCESS IS VIA HWY 5 AT THE INKS LAKE INTERSECTION 12 KM SW OF KAMLOOPS RANCHING/LOGGING ROADS AND THE AFTON HAUL ROAD CROSS THROUGH THE CLAIMS.

Prospecting Assistant(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)  
LARRY LUTJEN - MALASPINA COLLEGE MINERAL EXPLORATION FOR PROSPECTORS COURSE OF 1983 CERTIFICATE

Main Commodities Searched For COPPER, GOLD AND BASE METALS

Known Mineral Occurrences in Project Area COPPER, GOLD AND BASE METALS

## WORK PERFORMED

1. Conventional Prospecting (area) 200 HECTARES
2. Geological Mapping (hectares/scale) \_\_\_\_\_
3. Geochemical (type and no. of samples) SOIL, 379 SAMPLES AND BIOGEOCHEM, 188 SAMPLES
4. Geophysical (type and line km) MAGNETOMETER SURVEY OF 16 LINE KM
5. Physical Work (type and amount) 1.5 KM BASE LINE AND 16 KM OF GRID LINE
6. Drilling (no. holes, size, depth in m, total m) \_\_\_\_\_
7. Other (specify) \_\_\_\_\_

## Best Discovery

Project/Claim Name GM CLAIMS Commodities \_\_\_\_\_

Location (show on map) Lat. 50° 37.5' Long 120° 28' Elevation 2800 FT

Best assay/sample type BIO GEOCHEMICAL SAMPLES OF GOLD TO 280 PPB, PALLADIUM TO 176 PPB, COPPER TO 1890 PPM, NICKEL TO 163 PPM AND MOLY TO 46.6 PPM

Description of mineralization, host rocks, anomalies  
THERE IS A TREND TO THE GOLD ANOMALIES NW TO SE

13 PALLADIUM SAMPLES WITH VALUES OVER 40 PPB COINCIDE WITH NICKEL VALUES INDICATING UNDERLYING MAFIC ROCK. (ACCORDING TO DR. GLEN DUNN)

FEEDBACK: comments and suggestions for Prospector Assistance Program \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## D. TECHNICAL REPORT (continued)

### REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

Name RICHARD LODMELL Reference Number \_\_\_\_\_

#### 1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

THE GM CLAIMS ARE LOCATED 12 KM SOUTH-WEST FROM KAMICOOP'S  
AND 2 KM SOUTH OF SUGAR LOAF HILL ON N.T.S. MAP 92J/9W

SEE TOPOGRAPHICAL MAP 50,000 TO 1 SCALE

#### 2. PROGRAM OBJECTIVE [Include original exploration target.]

THE PROGRAM OBJECTIVE HAS BEEN TO EXPAND THE ANOMALOUS PONDREESA  
PINE BARK AND MAGNETOMETER RESULTS OF A 1994 EXPLORATION PROGRAM CONDUCT  
BY TEEK CORP., ACTIVATION LABS AND THE G.S.C. OVER THE RAINBOW SW CLAIM  
AND EXTENDED ON TO THE GM CLAIMS.

SEE CLAIMS MAP AND GRID LOCATION MAP

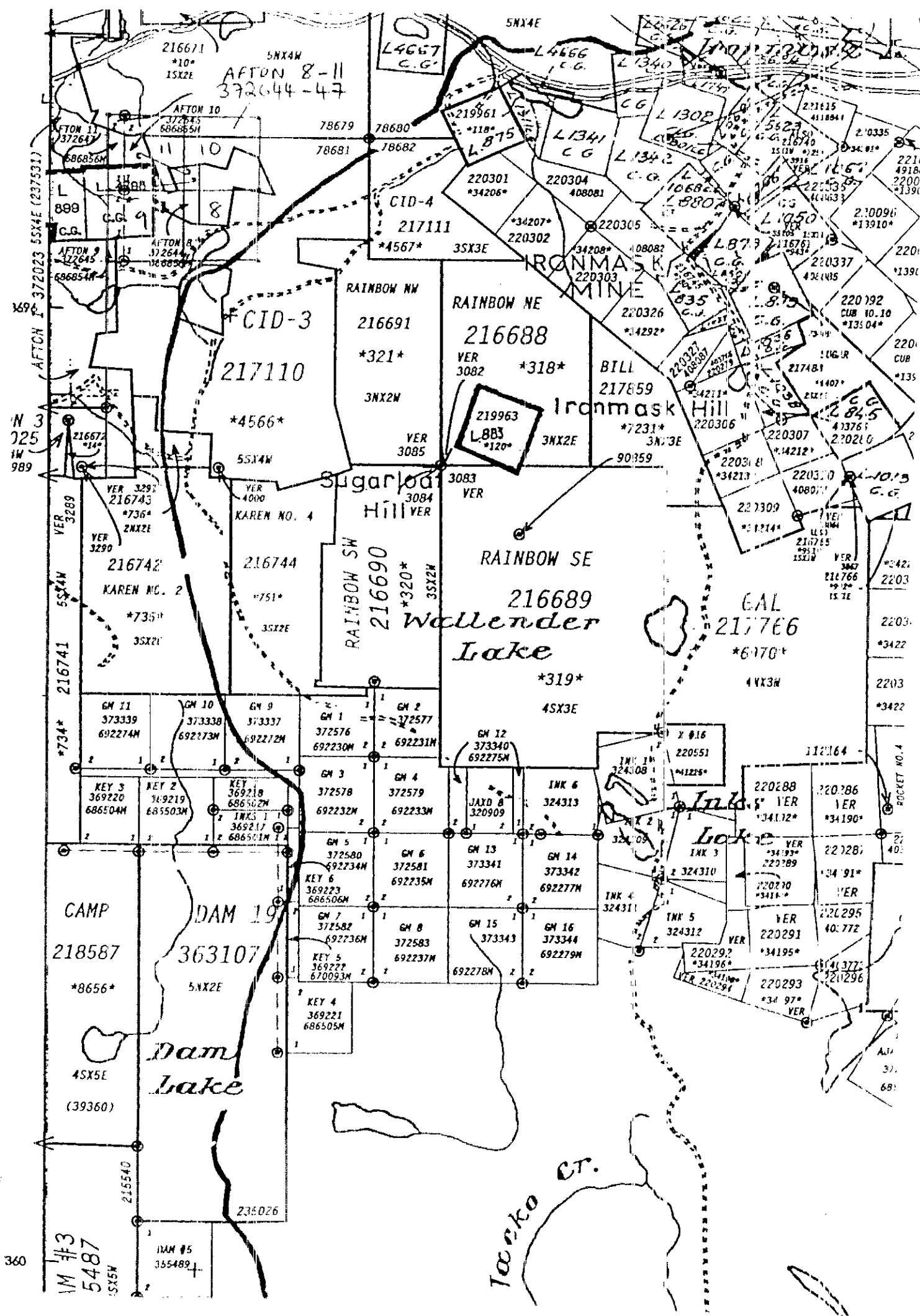
#### 3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

THE AREA OF THE GM CLAIMS IS COVERED WITH ABOUT 30 TO  
40 METERS OF OVERBURDEN THE ONLY OUT CROP IN THE AREA IS  
OF A TUFF ROCK THAT COMPOSES A SMALL HILL. THE TOP OF  
THE HILL IS LOCATED AT 9005 + 500W. THIS IS MARKED ON  
THE MAGNETOMETER SURVEY MAP.

THE THRUST OF THE PROSPECTING WAS BY SOIL GEOCHEM, PONDREESA  
PINE BARK BIOGEOCHEM AND MAGNETOMETRIC SURVEYS.







AFTON 8-11  
372644-47

CID-3  
217110

RAINBOW NE  
216688

RAINBOW SE  
216689  
Wallender Lake

EAL  
217766

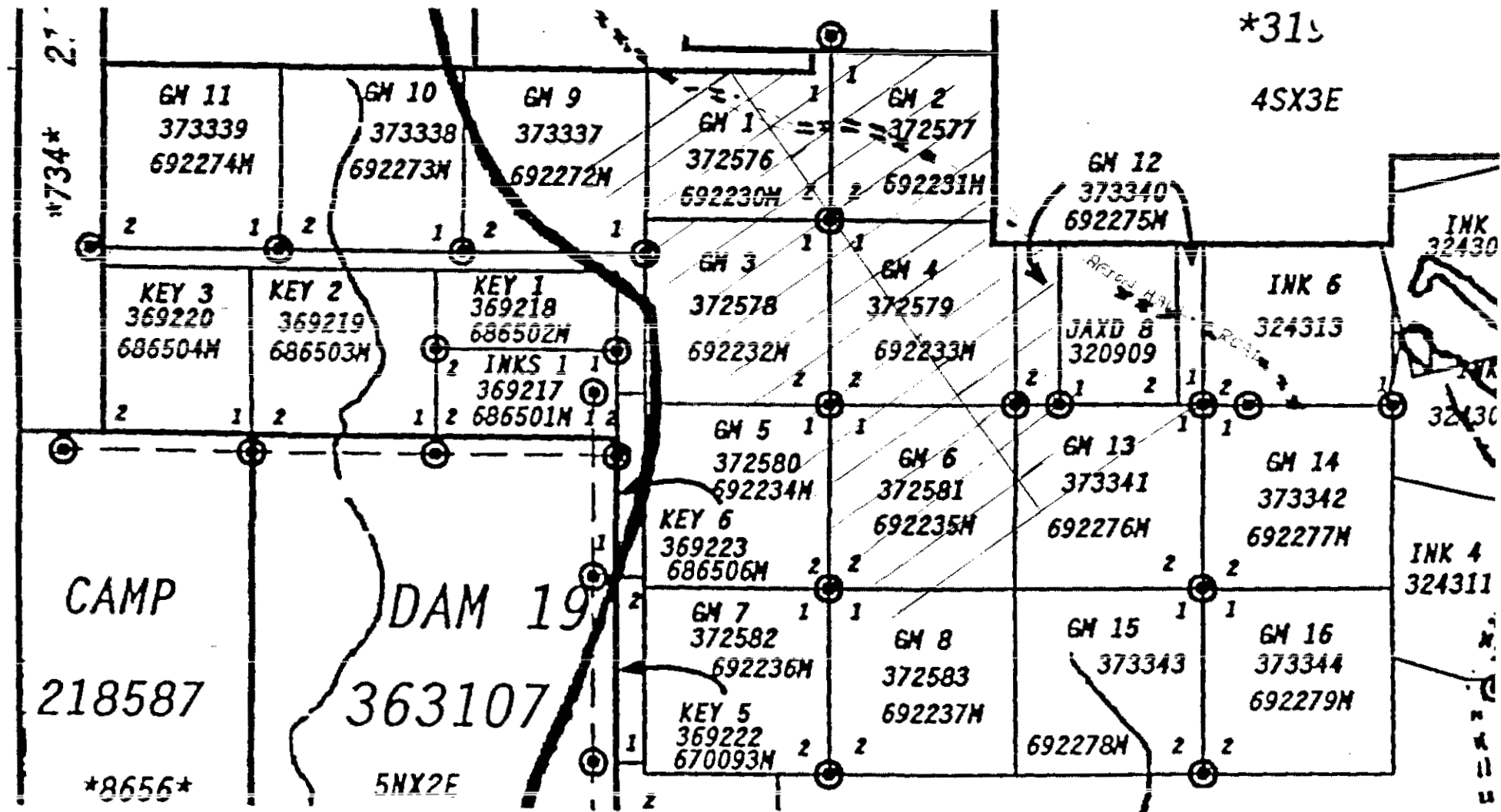
CAMP  
218587

DAM 19  
363107

Dam Lake

Inka Lake

Inka Ct.



## REPORT ON RESULTS (continued)

4. GEOCHEMICAL RESULTS [Describe all survey types done (rock, soil, silt) and their objective. Show clearly (with accompanying map(s) of appropriate scale) all sample sites along with all significant values. Any anomalous areas should be indicated on maps by the use of contouring, variable symbol sizes, or some other suitable technique. Include discussion/interpretation of results. A copy of analysis/assay certificates must be included with sample numbers from map. Details of individual rock samples taken are encouraged. Significant geochemical values obtained must be stated.]

SOIL GEOCHEMICAL SAMPLES WERE TAKEN EVERY 40 METERS STARTING FROM THE 20 EAST AND 20 WEST STATIONS TO THE 500 EAST AND WEST STATIONS, (SEE MAGNETOMETER SURVEY MAP) EXCEPT FOR LINE 00S TO THE WEST AND THE WEST ENDS OF LINES 100S, 200S, 700S, 800S, 1100S, 1200S, 1300S, AND 1400S AS SHOWN ON THE GRID LOCATION MAP.

THE OBJECT OF THIS SURVEY IS TO DELINEATE A COPPER PORPHYRY INTRUSIVE. THESE SAMPLES WILL BE ANALYZED AT A LATER DATE.

NOTE: THE BAGS OF THE SAMPLES TAKEN FROM THE AREA OF THE AFTON HAUL ROAD WHERE THE TOPSOIL HAS BEEN DISTURBED ARE MARKED WITH AN 'C' FOR 'C' HORIZON AND THE RESULTS OF ANALYSIS WILL BE CONSIDERED ACCORDINGLY.

BIOGEOCHEMICAL SAMPLES WERE TAKEN ALONG GRID LINES, CONSTRUCTED AT A 55° AZ TO INTERCEPT A SOUTH-EAST TRENDING OF MINERALIZATION FROM AFTON MINE, FROM THE OUTER BARK OF THE PONDROSA PINE TREES. THE SAMPLING PROCEDURE WAS TO LOCATE A PONDROSA NEAR A GRID LINE, TAKE AN AZIMUTH OF ITS POSITION FROM A GRIDLINE STATION AND RECORD ITS DISTANCE. (SEE BIOGEOCHEMICAL SAMPLE SITES). THE SAMPLES WERE TAKEN BY A PAINT SCRAPER INTO KRAFT SOIL BAGS.

WHEN THE MAGNETOMETER RESULTS WERE CONTOURED TWO LOW READING AND A HIGH READING AREA WERE REVEALED. SAMPLES FOR ANALYSIS WERE THEN CHOSEN FROM THOSE TAKEN WITHIN OR NEAR THESE AREAS. TWO SAMPLES WERE CHOSEN TO Tie IN DR COLIN DUNN'S SURVEY OF 1994 FROM HIS L1400 + 6+00 AND L1400 + 8+50 STATIONS AS WELL AS A SAMPLE TAKEN ON LINE WEST OF THE HAUL ROAD, L1400 - 5W. (SEE GRANT APPLICATION) THE REST OF THE SAMPLES WILL BE ANALYZED AT A LATER DATE.

AFTER I RECEIVED THE RESULTS OF THE ANALYSIS I CONTACTED DR. COLIN DUNN FOR ADVICE ON INTERPRETATION OF THE RESULTS: THE HIGH NUMBERS FOR POTASSIUM AND ZINC CAN BE DISCOUNTED AS THEY ARE MINERALS NEEDED FOR THE TREES TO LIVE.

ANOMALOUS VALUES FOR PALADIUM AND GOLD START AT 40 PPB. THE SURVEY PRODUCED 13 PALADIUM ANOMALIES AND 12 GOLD ANOMALIES. PALADIUM VALUES COINCIDING WITH NICKEL VALUES <sup>TO 1231M</sup> INDICATE UNDERLYING MAFIC ROCK. THE BACKGROUND FOR COPPER IS 100PPM AND OF THE 34 SAMPLES TAKEN THE LOWEST FOR COPPER IS 175PPM THE HIGHEST IS 1890PPM. THE BACKGROUND FOR MOLY IS 2PPM THERE WAS ONE SAMPLE AT 1.99PPM THE NEXT LOWEST WAS 0.38PPM THE HIGHEST IS 410.0PPM.

THE GOLD ANOMALIES TREND NW TO SE AND ARE NOT PLACER INFLUENCED ACCORDING TO JOHN BALL THE PROJECT GEOLOGIST AT AFTON MINE FOR DRC RESOURCES.

THE SURVEY PRODUCED FOUR ANOMALOUS AREAS, 300S + 320W, 700S + 330E, 1300S AND L1400W - 8+50S

THIS SURVEY HAS SKETCHED OUT AN ANOMALOUS MINERALIZATION TREND NW TO SE FOR 1. BC Prospectors Assistance Program - Guidebook 2000

G.M. PROPERTIES  
 BIOGEOCHEMICAL SAMPLE SITES  
 RICHARD LODMELL PROSPECTOR 2000

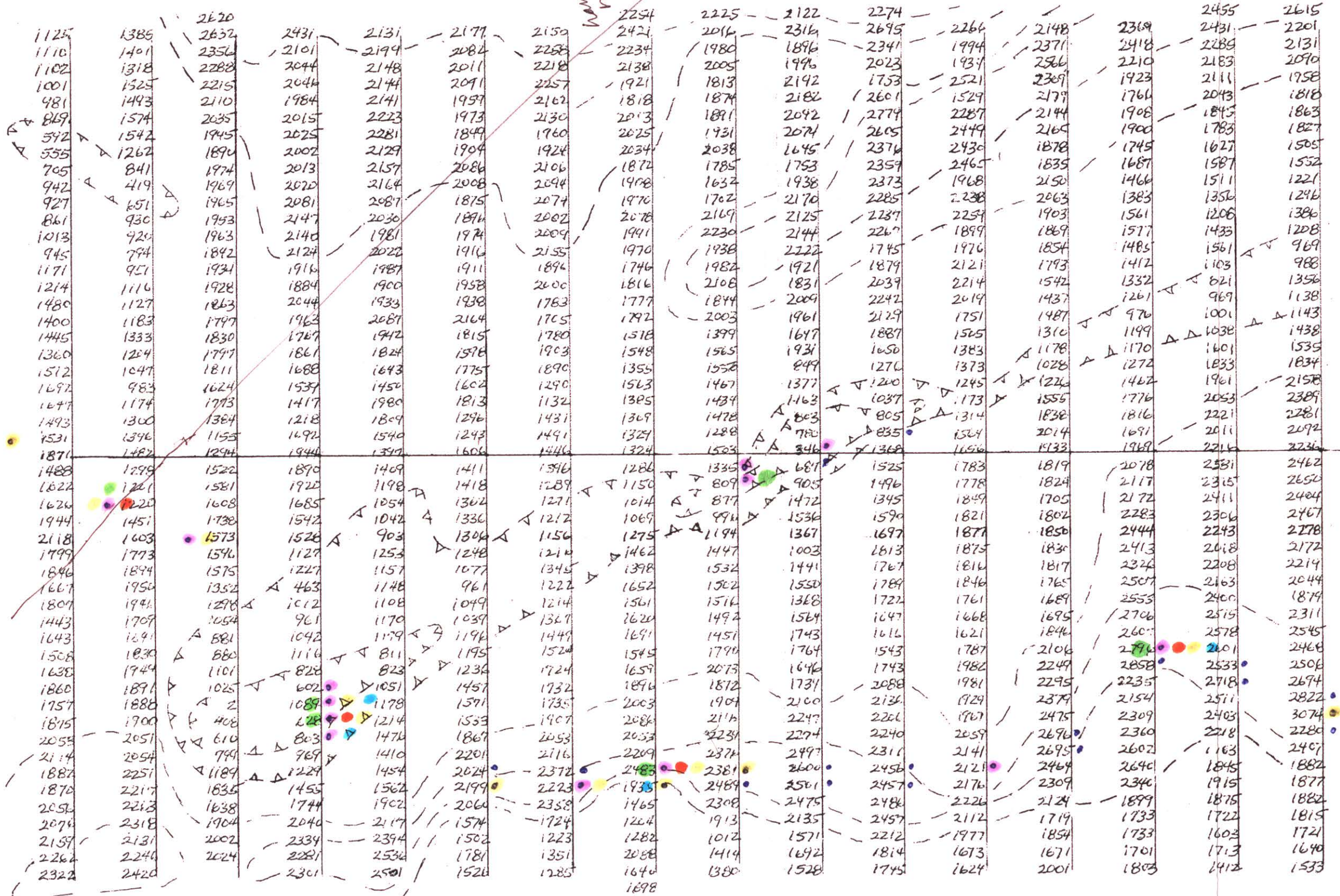
(ANOMALOUS  
VALUES)

1	G.M. Bio -	L 14+00W -	6+00S	(82PPB Au)
2		L 14+00W -	8+50S	(187PPB Au, 56PPB Pb, 1140PPM Cu, 11)
3	④ AREA	L 14+00W -	S.W. OF ROAD	(51PPB Au, 78PPB Pb)
4	G.M. Bio -	300S + 280W	AZ 140° @	40m (40PPB Pb)
5	(40.4PPM Mo)	300S + 300W	AZ 260° @	15m (46PPB Au, 80PPB Pb, 11)
6	① AREA	300S + 320W	AT STATION	(280PPB Au, 176PPB Pb, 1640PPM Cu, 11)
7	(46.6PPM Mo)	300S + 320W	AZ 120° @	40m (84PPB Pb)
8	G.M. Bio -	800S + 20W	AZ 160° @	57m (49PPB Pb)
9		800S + 20W	AZ 162° @	37m (78PPB Pb, 1050PPM Cu)
10		00N + 900S BL	AZ 70° @	35m (46PPB Pb)
11		00N + 900S BL	AZ 102° @	30m
12		1000S + 20E	BY STATION	
13	G.M. Bio -	500S + 380W	AZ 55° @	10m
14		500S + 400W	AZ 145° @	20m (40PPB Au)
15		600S + 380W	AZ 20° @	10m
16		600S + 400W	AT STATION	(50PPB Au, 42PPB Pb)
17	② AREA (43.4PPM Mo)	700S + 380W	AZ 290° @	34m (50PPB Au, 96PPB Pb, 1810PPM Cu)
18		700S + 380W	BY STATION	(100PPB Au)
19		800S + 380W	ON LINE @	16m W (42PPB Au)
20		800S + 380W	BY STATION	
21		900S + 380W	ON LINE @	8m W
22		900S + 380W	AZ 145° @	15m
23		1000S + 400W	AZ 20° @	25m
24		1000S + 380W	AZ 350° @	20m
25		1100S + 380W	AZ 174° @	25m (83PPB Pb)
26		1200S + 340W	AZ 312° @	20m
27		1200S + 360W	ON LINE @	8m W
28	③ AREA (46.3PPM Mo)	1300S + 240W	ON LINE @	9m W (144PPB Au, 81PPB Pb, 1890PPM Cu)
29		1300S + 240W	AZ 145° @	10m
30		1400S + 260W	AZ 288° @	6m
31 AND 31F		1400S + 280W	AZ 290° @	8m
32		1500S + 320W	AZ 300° @	5m (48PPB Au)
33		1500S + 320W	AZ 20° @	18m
34		1500S + 300W	AZ 348° @	15m



500W 400W 300W 200W 100W 00E 100E 200E 300E 400E 500E

00S 100S 200S 300S 400S 500S 600S 700S 800S 900S 1000S 1100S 1200S 1300S 1400S 1500S



GM - CLAIMS  
 NTS - 921/9  
 OCTOBER 2000  
 MAGNETOMETER SURVEY  
 SCALE: 2 CM = 100 METERS

145° Az

SAMPLE SITES

BIOGEOCHEM ANOMALIES

PALLADIUM

NICKEL

GOLD

COPPER

MOLY

NOTE: THE TOTAL GAMMA READINGS ARE NORMALIZED BY SUBTRACTING 56,000 GAMMAS PERM EACH READING

500E 400E 300E 200E 100E 00E 100W 200W 300W 400W 500W

00S 100S 200S 300S 400S 500S 600S 700S 800S 900S 1000S 1100S 1200S 1300S 1400S 1500S

1125	1385	2632	2431	2131	2177	2159	2254	2225	2122	2274	2264	2148	2369	2455	2615
1110	1401	2356	2101	2194	2082	2258	2234	2016	2316	2695	1994	2371	2418	2431	2201
1102	1318	2288	2044	2148	2011	2218	2138	1980	1896	2341	1934	2566	2418	2289	2131
1001	1525	2215	2044	2144	2091	2257	1921	2005	1996	2023	1934	2566	2210	2183	2090
981	1443	2110	1984	2141	1957	2162	1818	1813	2192	1753	2521	2309	1923	2111	1958
869	1574	2035	2015	2223	1973	2130	2013	1874	2182	2601	1529	2179	1766	2043	1818
592	1542	1945	2025	2281	1849	1960	2025	1891	2092	2774	2287	2144	1908	1845	1863
555	1262	1894	2002	2129	1904	1924	2034	2038	2074	2605	2449	2165	1900	1783	1827
705	841	1974	2013	2157	2086	2106	1872	1785	1645	2376	2430	1878	1745	1627	1505
942	419	1969	2020	2164	2008	2094	1908	1632	1753	2359	2465	1835	1687	1587	1552
927	651	1965	2020	2164	2008	2094	1908	1632	1938	2373	1968	2150	1466	1511	1221
861	930	1953	2147	2030	1875	2074	1976	1762	2170	2285	2238	2063	1383	1356	1246
1013	920	1963	2147	2030	1876	2002	2078	2169	2125	2287	2254	1903	1561	1206	1386
945	794	1842	2124	2022	1916	2155	1970	1938	2144	2222	1745	1899	1869	1433	1208
1171	951	1934	1916	1987	1911	1894	1746	1982	1921	1879	1976	1854	1577	1433	1208
1214	1116	1928	1884	1900	1958	2000	1816	2108	1831	2039	2214	1542	1412	1103	968
1480	1127	1863	2044	1933	1938	1783	1777	1844	2009	2242	2019	1437	1261	821	1356
1400	1183	1797	1962	2087	2164	1705	1792	2003	1961	2129	1751	1487	976	1001	1143
1445	1333	1830	1767	1942	1815	1780	1518	1399	1617	1887	1505	1310	1199	1038	1438
1360	1244	1797	1861	1824	1578	1903	1548	1565	1931	1650	1383	1178	1170	1601	1535
1512	1047	1811	1688	1643	1775	1890	1355	1558	849	1270	1373	1028	1272	1833	1834
1692	983	1624	1539	1450	1602	1290	1563	1467	1377	1240	1245	1245	1462	1961	2158
1647	1174	1773	1417	1980	1813	1132	1385	1434	1163	1037	1173	1555	1776	2053	2389
1493	1300	1384	1218	1809	1296	1431	1369	1478	803	805	1314	1838	1816	2221	2281
1531	1396	1155	1492	1540	1243	1491	1327	1288	780	835	1524	2014	1691	2011	2092
1871	1482	1294	1944	1397	1606	1416	1324	1503	346	1368	1656	1533	1969	2714	2736
1488	1298	1522	1870	1409	1411	1396	1286	1335	681	1525	1783	1819	2078	2531	2462
1622	1221	1581	1920	1198	1418	1289	1150	809	905	1496	1778	1824	2117	2315	2650
1626	1220	1608	1685	1054	1302	1271	1014	877	1472	1345	1849	1705	2172	2411	2404
1944	1451	1738	1542	1042	1336	1212	1069	996	1536	1590	1821	1802	2283	2306	2467
2118	1603	1573	1528	903	1306	1156	1275	1194	1367	1697	1877	1850	2444	2243	2278
1799	1773	1546	1129	1253	1248	1210	1462	1447	1003	1813	1875	1830	2413	2018	2172
1846	1894	1575	1227	1157	1077	1345	1398	1532	1441	1767	1816	1817	2324	2208	2214
1667	1950	1352	463	1148	961	1222	1652	1502	1530	1789	1846	1765	2507	2163	2044
1807	1941	1278	1012	1108	1049	1214	1561	1516	1368	1722	1761	1689	2553	2400	1874
1443	1709	1054	961	1170	1039	1367	1620	1492	1564	1647	1668	1695	2706	2515	2311
1643	1641	881	1042	1179	1196	1449	1691	1451	1743	1616	1621	1846	2600	2578	2545
1508	1830	880	1116	811	1195	1524	1545	1790	1764	1543	1787	2106	2796	2601	2468
1638	1749	1101	828	823	1236	1724	1659	2073	1646	1743	1982	2249	2858	2533	2506
1860	1871	1025	602	1051	1457	1732	1896	1872	1731	2088	1981	2295	2235	2718	2674
1757	1888	2	1089	1178	1571	1735	2003	1872	2100	2088	1929	2379	2154	2511	2822
1815	1700	408	128	1214	1533	1907	2086	1904	2116	2247	1967	2475	2309	2403	3074
2059	2051	610	803	1476	1867	2053	2053	2231	2274	2240	2059	2696	2360	2218	2280
2114	2054	799	769	1410	2201	2116	2209	2374	2497	2311	2141	2695	2602	1163	2407
1887	2251	1189	1229	1454	2024	2372	2483	2381	2600	2456	2121	2464	2640	1845	1882
1870	2217	1835	1455	1562	2199	2223	1935	2489	2501	2457	2176	2309	2340	1915	1877
2056	2213	1638	1744	1902	2060	2358	1465	2308	2475	2486	2226	2124	1899	1875	1882
2074	2318	1904	2040	2117	1574	1724	1264	1913	2135	2457	2112	1719	1733	1722	1815
2159	2131	2002	2334	2394	1502	1223	1282	1012	1571	2212	1977	1854	1733	1603	1721
2262	2240	2024	2281	2536	1781	1351	2088	1414	1692	1814	1673	1671	1701	1713	1640
2322	2420	2301	2501	1528	1285	1698	1698	1380	1528	1745	1624	2001	1803	1412	1533

CM - CLAIMS  
NTS - 92 I / 9  
OCTOBER 2000  
MAGNETO-METER SURVEY  
SCALE: 2 CM = 100 METERS

TUFF HILL  
MAG HIGH  
MAG LOW

145° HE

NOTE: THE TOTAL GAMMA READINGS ARE NORMALIZED BY SUBTRACTING 56,000 GAMMAS PERM EACH READING