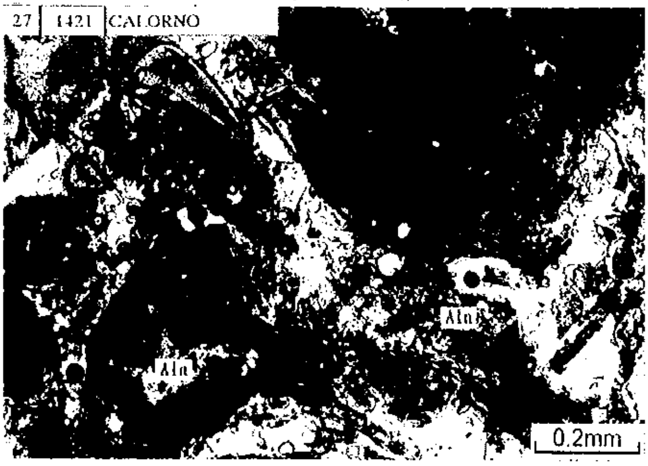
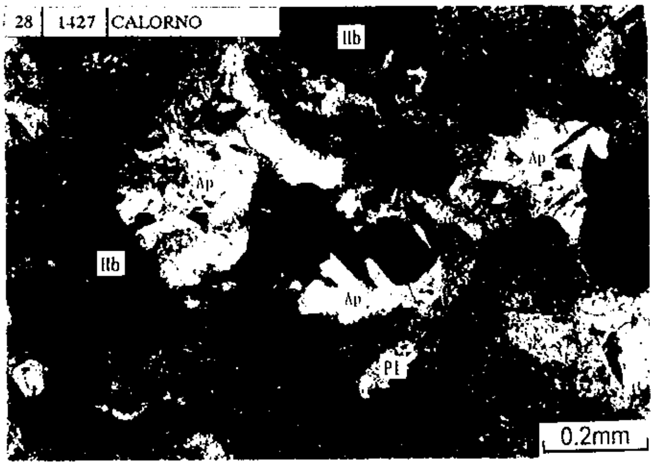
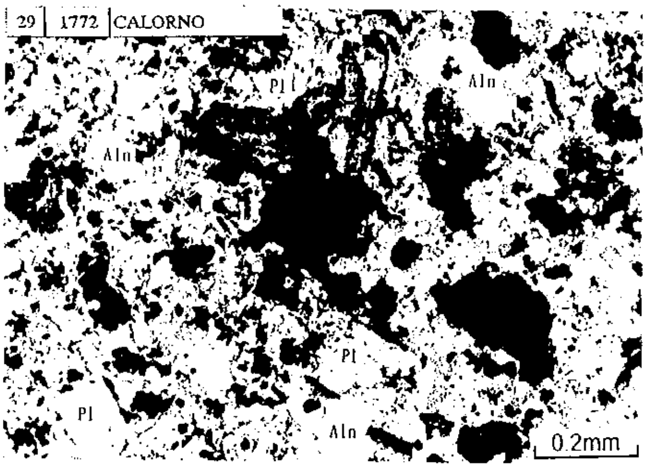
Photomicrographs of Polished Thin Sections

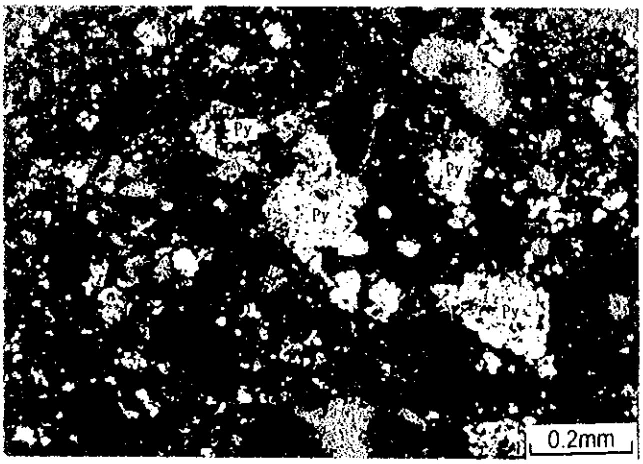
Plane polarized light

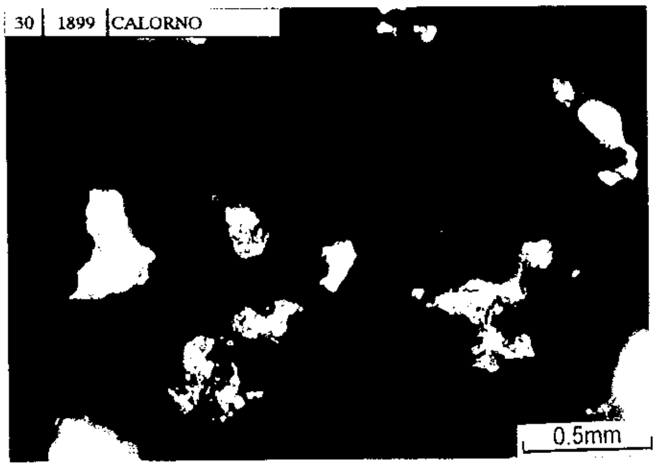
Crossed polarized light

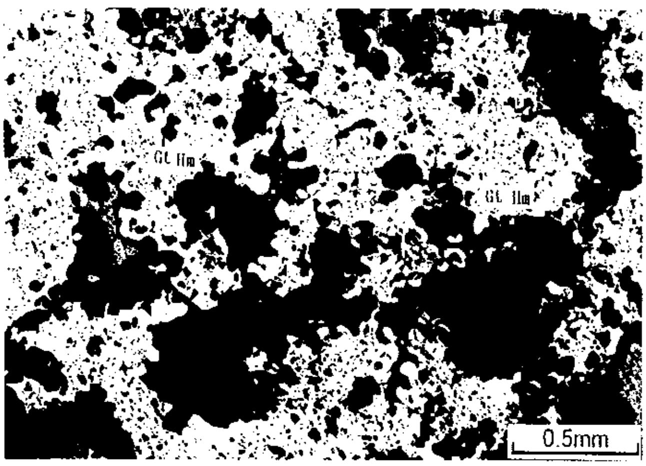












Appendix 4

X-ray Diffraction Analysis

"SAMPLE LIST of LABORATORY WORKS" (X-RAY)

	Sample No.	District	UTM N	UTM E	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1	1850	CALORNO	7,758,367	19,544,088	<2	<0.5	21	14	10	15	<5	40	2	414	<5
2	1852	CALORNO	7,758,157	19,544,377	<2	<0.5	33	3	19	28	<5	50	2	235	<5
3	1868	CALORNO	7,756,953	19,541,615	<2	<0.5	14	3	6	48	<5	10	2	231	<5
4	1870	CALORNO	7,757,251	19,542,252	<2	<0.5	4	<3	5	36	<5	20	2	591	<5
5	1884	CALORNO	7,757,051	19,544,319	<2	<0.5	11	15	14	17	<5	20	3	204	<5
6	1886	CALORNO	7,756,973	19,544,377	<2	<0.5	21	4	16	14	<5	10	5	54	<5
7	1892	CALORNO	7,756,954	19,544,737	<2	<0.5	11	<3	7	15	<5	20	4	589	<5
8	1737	CALORNO	7,760,426	19,543,384	<2	<0.5	23	3	9	<5	<5	20	<1	310	<5
9	1741	CALORNO	7,761,416	19,543,621	<2	<0.5	5	<3	<2	5	<5	60	2	84	<5
10	1748	CALORNO	7,761,479	19,544,342	<2	<0.5	8	11	6	13	<5	20	3	312	<5
11	1757	CALORNO	7,762,029	19,543,152	<2	<0.5	15	<3	<2	20	<5	320	8	1,261	<5
12	1764	CALORNO	7,761,525	19,542,980	<2	<0.5	<2	<3	<2	<5	<5	20	3	1,438	<5
13	1898	CALORNO	7,759,591	19,547,130	<2	<0.5	8	<3	19	64	<5	20	2	161	<5
14	1905	CALORNO	7,759,591	19,547,130	<2	<0.5	14	83	35	255	<5	20	<1	248	<5
15	1913	CALORNO	7,759,411	19,547,168	<2	<0.5	45	<3	201	10	<5	10	2	629	<5
16	1019	CALORNO	7,763,127	19,543,530	<2	<0.5	4	13	2	31	<5	60	2	78	<5
17	1119	CALORNO	7,763,313	19,543,755	<2	<0.5	12	<3	<2	10	<5	20	4	50	<5
18	1241	CALORNO	7,762,910	19,544,210	<2	<0.5	3	<3	<2	<5	<5	10	18	960	<5
19	1424	CALORNO	7,764,870	19,541,700	<2	<0.5	16	19	2	29	<5	130	19	321	<5
20	1431	CALORNO	7,765,935	19,540,560	4	<0.5	107	6	17	123	<5	30	8	178	<5
21	1433	CALORNO	7,766,025	19,539,910	<2	<0.5	30	<3	<2	9	<5	1,920	2	138	<5
22	1453	CALORNO	7,754,100	19,544,085	<2	<0.5	37	<3	67	6	<5	110	<1	736	<5
23	1531	CALORNO	7,766,562	19,540,217	<2	<0.5	60	<3	8	<5	<5	10	1	122	<5
24	1476	CHULLCANI	7,977,300	19,578,590	<2	<0.5	16	13	19	<5	<5	10	2	168	<5
25	1715	LOMA LLENA	7,722,129	19,571,919	<2	<0.5	13	5	5	74	<5	5,750	7	117	<5
26	1719	LOMA LLENA	7,721,900	19,572,083	<2	<0.5	61	6	7	82	<5	20	1	110	<5
27	1725	LOMA LLENA	7,721,349	19,572,286	2	<0.5	39	7	13	36	<5	30	42	147	<5
28	1703	LOMA LLENA	7,710,358	19,579,957	<2	<0.5	6	<3	3	6	<5	20	6	552	<5
29	1707	LOMA LLENA	7,710,186	19,579,500	<2	<0.5	5	<3	3	5	<5	50	4	322	<5
30	1813	LOMA LLENA	7,709,764	19,581,048	<2	<0.5	4	<3	3	<5	<5	10	3	285	<5
31	1205	LOMA LLENA	7,712,787	19,578,504	11	<0.5	6	<3	<2	<5	<5	3,420	12	355	<5
32	1221	LOMA LLENA	7,710,840	19,579,237	<2	<0.5	2	<3	<2	<5	<5	<10	6	55	<5
33	1301	LOMA LLENA	7,712,644	19,578,138	<2	<0.5	5	4	6	<5	<5	20	5	539	<5
34	1305	LOMA LLENA	7,712,129	19,578,790	<2	<0.5	<2	<3	<2	<5	<5	20	2	12	<5
35	1306	LOMA LLENA	7,711,990	19,578,653	<2	<0.5	<2	<3	<2	<5	<5	10	3	276	<5
36	1308	LOMA LLENA	7,711,925	19,578,792	<2	<0.5	<2	<3	<2	<5	<5	10	3	218	<5
37	1401	LOMA LLENA	7,717,500	19,577,500	<2	<0.5	3	<3	3	<5	<5	20	<1	133	<5
38	1409	LOMA LLENA	7,725,430	19,571,810	4	<0.5	3	3	2	19	<5	60	2	135	<5
39	1410	LOMA LLENA	7,725,665	19,571,300	<2	<0.5	45	5	3	26	<5	90	10	154	<5
40	1415	LOMA LLENA	7,725,380	19,571,060	<2	<0.5	32	<3	6	9	<5	40	<1	105	<5
41	1920	SONIA SUSANA	7,918,320	19,515,537	<2	<0.5	19	<3	82	<5	<5	10	1	97	<5
42	1932	SONIA SUSANA	7,919,460	19,513,695	846	10	38	94	33	129	91	10	15	1,410	18
43	1463	SONIA SUSANA	7,917,977	19,513,952	<2	<0.5	<2	13	10	<5	<5	10	<1	244	<5
44	1468	SONIA SUSANA	7,917,140	19,514,280	<2	<0.5	3	12	26	<5	<5	10	<1	287	<5
45	1469	SONIA SUSANA	7,917,040	19,513,975	2	<0.5	<2	11	55	12	<5	30	<1	225	<5
46	1618	SONIA SUSANA	7,918,172	19,520,423	<2	<0.5	5	23	48	27	<5	40	1	104	<5
47	1969	TURAQUIRI	7,994,389	19,561,296	2	82	249	3,150	4,373	61	<5	1,100	1	30	<5
48	1971	TURAQUIRI	7,994,390	19,561,278	<2	2	11	228	637	36	<5	170	2	357	<5
49	1974	TURAQUIRI	7,994,383	19,561,367	<2	1	34	2,519	1,648	79	<5	150	<1	224	<5
50	1977	TURAQUIRI	7,994,385	19,561,336	<2	9	12	3,134	1,047	59	<5	530	4	86	<5

No.	Sample No.	Locality	Rock	Mineral	Quartz	Smectite	Kaolinite	Sericite (Biotite)	Chlorite	Sericite／Smectite	Alunite	Plagioclase	Potassium feldspar	Pyrophyllite	Amphibole	Calcite	Halloysite	Goethite	Garnet	Pyrite	Sphalerite	Galena	Magnetite	Hematite
1	001019	CALORNO	da	arg wht to ylw	◎						△	○	△											
2	001119	CALORNO	bre-sil		◎						△	△	△											
3	001241	CALORNO	r-arg		◎																			
4	001424	CALORNO	an lava	st sil qz vlt	◎																			
5	001431	CALORNO	an lptf	st arg m sil	◎		△	☆			△	○		☆										
6	001433	CALORNO	an lptf	st sil	○						◎	◎												
7	001453	CALORNO	hb bt an da lava	st arg			△		☆?			◎	○											
8	001531	CALORNO	str-sil		△						○	◎	△											
9	001737	CALORNO	l-gry-wht bt da		☆		△	☆				○	◎											
10	001741	CALORNO	wht sil an		△						○	◎	△											
11	001748	CALORNO	p-brn wht alt r arg		◎			△		☆		△	△											
12	001757	CALORNO	p-brn wht tf sil		◎																			
13	001764	CALORNO	wht l-brn an		◎							◎												
14	001850	CALORNO	arg lptf		△		○	☆	△		△	◎												
15	001852	CALORNO	arg-an		☆		△	☆			☆?	◎	△											
16	001868	CALORNO	sil-arg tfbr		○		◎	◎			◎	○												
17	001870	CALORNO	stg-sil arg tfbr		○		☆?	☆			△	◎	△											
18	001884	CALORNO	arg-tfbr		☆		◎	○			○	◎												
19	001886	CALORNO	stg arg tfbr		◎		☆		○		☆?	◎	△											
20	001892	CALORNO	stg arg tfbr		△		◎				○	◎			☆									
21	001898	CALORNO	stg-arg, sil an?		○		△				◎	○					◎							
22	001905	CALORNO	gth in stg-arg sil an				☆					◎	◎				◎	◎						
23	001913	CALORNO	gth in wk-arg prpy an		△		△	☆	☆		△	◎	△											
24	001476	CHULLCANI	an vol bre	st sil arg vlt py	◎			☆			☆?	△	△											
25	001205	LOMA LLENA	r-sil-bre-arg		◎																			
26	001221	LOMA LLENA	str-bre-arg		◎																			
27	001301	LOMA LLENA	bre		◎																			
28	001305	LOMA LLENA	tfbr		◎																			
29	001306	LOMA LLENA	tfbr		◎																			
30	001308	LOMA LLENA	tfbr		◎							◎												
31	001401	LOMA LLENA	an tf	st aln sil			△				◎	◎												
32	001409	LOMA LLENA	an da lptf	st sil bxwk py			△				◎	◎												
33	001410	LOMA LLENA	an da lava	st sil aln bxwk	◎						△	○	○											
34	001415	LOMA LLENA	an da lava	m st sil arg py	◎		△	☆			○	◎												
35	001703	LOMA LLENA	lptf		◎																			
36	001707	LOMA LLENA	arg-sil-r		△							◎												
37	001715	LOMA LLENA	wht lptf		△		☆				◎	○												
38	001719	LOMA LLENA	pur-red brn gry an		◎		△	☆			△	◎	△											
39	001725	LOMA LLENA	p-grn-gry an		◎		△	☆				◎	◎											
40	001813	LOMA LLENA	sil arg an		◎																			
41	001463	SONIA～SUSANA	bt an da tf	m st arg w sil	◎			☆				△	△											
42	001468	SONIA～SUSANA	bt an da lp tf	st arg py	◎			☆				○	○											
43	001469	SONIA～SUSANA	bt an da lp tf	st sil arg	◎			☆				△	○											
44	001618	SONIA～SUSANA	bt-hb an		◎			☆				○	△											
45	001920	SONIA～SUSANA	prpy tf		◎		☆	☆				△	◎											
46	001932	SONIA～SUSANA	stg arg, sil lptf?	clay	◎					☆		☆	☆											
47	001969	TURAQUIRI	qz-ba vein	tunnel	◎		☆	△				○	○											
48	001971	TURAQUIRI	qz-ba vein	tunnel	◎			△	△			△	○											
49	001974	TURAQUIRI	qz-ba vein	tunnel	◎		☆	☆				△	○											
50	001977	TURAQUIRI	qz-ba vein	tunnel	◎		○					☆	○											

◎ ; Abundant, ○ ; Common, △ ; Poor, ☆ ; Trace

Appendix 4 Results of X-ray Diffraction Analysis

Appendix 5

Fluid Inclusion Analysis

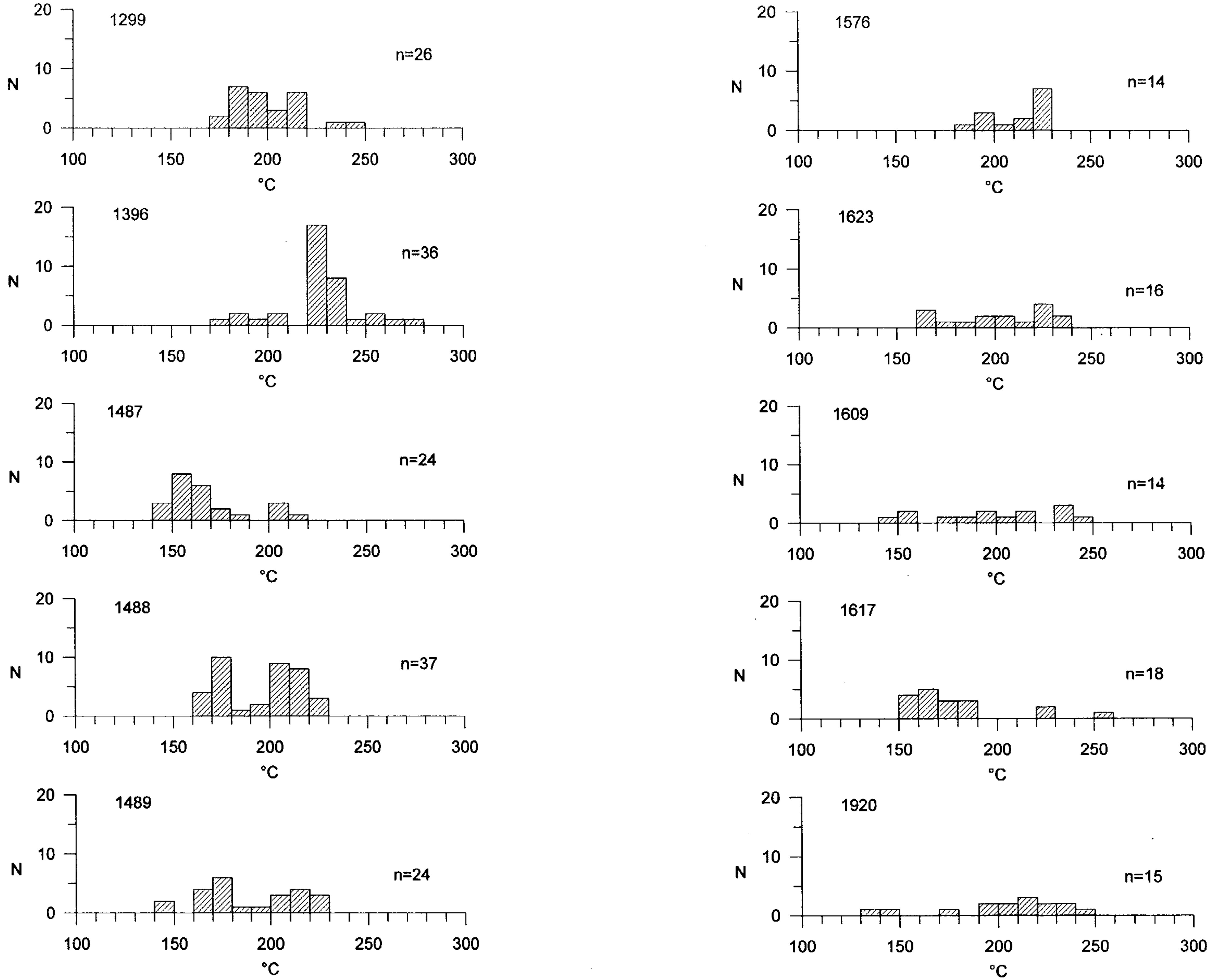
"SAMPLE LIST of LABORATORY WORKS" (FLUID INCLUSION)

	Sample No.	District	UTM		Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Ba	Sn
			N	E	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	1299	TURAQUIRI	7,994,548	19,562,218	10	315	535	2,395	5,757	241	15	2,420	2	5,350	<5
2	1396	TURAQUIRI	7,994,596	19,562,215	3	877	125	4,400	2,834	22	<5	360	2	6,585	<5
3	1487	TURAQUIRI	7,994,820	19,560,780	<2	12	14	62	967	<5	<5	50	2	281	<5
4	1488	TURAQUIRI	7,994,605	19,562,167	8	191	94	653	464	8	<5	50	8	3,787	<5
5	1489	TURAQUIRI	7,994,599	19,562,184	<2	251	159	2,585	898	12	<5	70	2	5,169	<5
6	1576	TURAQUIRI	7,994,593	19,562,215	<2	583	14	650	331	6	<5	510	8	3,481	<5
7	1623	TURAQUIRI	7,994,594	19,562,187											
8	1609	SONIA SUSANA	7,916,473	19,514,775	<2	<0.5	30	371	12,109	10	<5	450	3	2,143	<5
9	1617	SONIA SUSANA	7,918,008	19,520,306	<2	1	8	16	38	20	<5	30	<1	150	<5
10	1920	SONIA SUSANA	7,918,320	19,515,537	<2	<0.5	19	<3	82	<5	<5	10	1	97	<5

District	sample No.	Host Minerals		Homogenization temperatures (Th°C) and melting temperatures (Tmice°C)	number of inclusions	Range °C	Avg. °C	NaCl in Solusion (wt%)
Turaquiri	1299	quartz	Th(°C)	173 175 182 183 183 183 186 186 187 191 195 196 197 198 200 204 209 210 211 211 212 212 214 215 232 247	26	173 — 247	200	
			Tmice(°C)	-6.9 -6.9 -6.7 -5.9 -5.9 -5.9 -5.7 -5.7 -5.7 -5.7 -5.7 -5.7 -5.7 -5.7 -5.5 -5.5 -5.3 -5.2 -5.0	19	-6.9 — -5.0	-5.8	8.9
	1396	quartz	Th(°C)	178 184 187 197 203 206 226 226 226 226 226 226 226 226 227 227 227 227 227 227 228 229 230 232 232 232 232 234 236 238 239 242 251 260 268 280	36	178 — 280	227	
			Tmice(°C)	-10.8 -10.8 -10.8 -10.8 -10.7 -10.7 -10.7 -10.7 -10.7 -10.3 -10.3 -6.2 -5.9 -5.9 -5.9 -5.9 -5.8 -5.6 -5.6 -5.0 -5.0 -5.0 -4.8 -4.8	24	-10.8 — -4.8	-7.9	11.5
	1487	quartz	Th(°C)	149 149 150 151 151 153 157 158 160 160 160 161 162 162 164 166 166 171 171 182 201 202 203 215	24	149 — 215	168	
			Tmice(°C)	-2.4 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.2 -2.2 -2.2 -2.2 -1.1 -1.1 -0.4 -0.4 -0.4	19	-2.4 — -0.4	-1.9	3.1
	1488	quartz	Th(°C)	161 167 167 168 171 173 174 176 176 177 179 179 179 180 187 192 197 202 202 205 205 205 206 207 207 209 215 218 218 220 220 220 220 220 222 224 227	37	161 — 227	197	
			Tmice(°C)	-8.0 -8.0 -8.0 -8.0 -7.7 -7.7 -7.4 -7.4 -6.9 -6.9 -6.8 -6.8 -6.8 -6.1 -6.0 -5.9 -5.9 -5.9 -5.9 -5.6 -5.5	21	-8.0 — -5.5	-6.8	10.3
	1489	quartz	Th(°C)	146 148 163 164 167 170 172 174 174 180 180 180 188 197 203 205 208 211 212 219 219 222 223 227	24	146 — 227	190	
			Tmice(°C)	-12.6 -11.3 -10.7 -10.7 -10.7 -10.7 -10.7 -10.7 -10.7 -10.7 -10.7 -10.5 -10.5 -10.5 -6.4 -6.4 -5.9 -5.9 -5.8 -5.8 -4.7 -4.3	22	-12.6 — -4.3	-9.0	12.8
	1576	quartz	Th(°C)	181 192 197 200 202 213 218 222 224 224 225 225 226 230	14	181 — 230	213	
			Tmice(°C)	-9.9 -8.0 -8.0 -7.8 -7.7 -7.6 -7.5 -7.5 -7.4 -7.4 -7.3 -7.3 -7.3 -7.3 -7.1 -7.0	16	-9.9 — -7.0	-7.6	11.3
	1623	quartz	Th(°C)	163 166 170 171 185 195 197 204 210 219 224 225 225 229 232 232	16	163 — 232	203	
			Tmice(°C)	-15.0 -14.5 -14.4 -14.3 -14.2 -14.2 -14.2 -14.2 -14.0 -13.8 -13.6 -13.6 -13.5 -13.5 -13.4 -13.4	16	-15.0 — -13.4	-14.0	17.9
Sonia~Susana	1609	quartz	Th(°C)	149 151 160 180 189 195 197 204 212 218 232 235 240 249	14	149 — 249	201	
			Tmice(°C)	-4.8 -4.7 -4.5 -4.5 -4.4 -4.4 -4.3 -4.2 -4.0 -4.0 -3.9 -3.9 -3.8 -3.4 -3.3	15	-4.8 — -3.3	-4.1	6.6
	1617	quartz	Th(°C)	151 152 154 159 162 163 164 166 170 172 173 173 185 189 189 222 228 258	18	151 — 258	179	
			Tmice(°C)	-3.5 -2.8 -2.7 -2.7 -2.6 -2.6 -2.4 -2.3 -1.3 -1.2 -1.2 -1.1	12	-3.5 — -1.1	-2.2	3.7
	1920	quartz	Th(°C)	139 144 176 195 197 201 209 211 215 220 222 227 235 235 249	15	139 — 249	205	
			Tmice(°C)	-4.2 -3.2 -2.9 -2.8 -2.7 -2.7 -2.6 -2.6 -2.6 -2.3 -1.8 -1.6 -1.6 -1.6 -1.5 -1.5 -1.3	17	-4.2 — -1.3	-2.3	3.9

NaCl in Solusion (wt%) = 0+1.76958*(-θ)-4.2384*10^(-2)*(-θ)^2+5.2778*10^(-4)*(-θ)^3

Appendix 5 Results of Fluid Inclusion Analysis



Histogram of the Homogenzation Temperature

Appendix 6

Isotopic Dating

"SAMPLE LIST of LABORATORY WORKS" (DATING SAMPLES)

Serial No.	Sample No.	District	UTM N	UTM E	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1	2112	TURAQUIRI	7,994,430	19,561,220											
2	2113	CHULLCANI	7,974,520	19,520,104											
3	2107	SONIA SUSANA	7,922,907	19,521,079											
4	2108	SONIA SUSANA	7,922,593	19,508,987											
5	2109	SONIA SUSANA	7,919,177	19,508,313											
6	1863	CALORNO	7,755,838	19,543,883	<2	<0.5	53	<3	46	<5	<5	20	2	149	<5
7	2101	CALORNO	7,765,981	19,545,979											
8	1042	LOMA LLENA	7,710,833	19,582,348											
9	1043	LOMA LLENA	7,723,886	19,571,711											
10	1142	LOMA LLENA	7,710,067	19,579,257											

Sample No.	Locality			Rock name	Mineral analyzed	% K	Rad. ^{40}Ar		Isotopic Age (Ma)
	District	UTM-N	UTM-E				nL/g	% /Total	
2112	Turaquiri	7,994,430	19,561,220	Dacite Tuff	biotite	5.85	2.2549	55.1	5.51±0.11
2113	Chullcani	7,974,520	19,520,104	Bt-Hy-Aug-Hb Andesite	whole rock	2.52	0.6011	60.6	6.13±0.12
2107	Sonia - Susana	7,922,907	19,521,079	Rhyolitic Tuff	biotite	5.81	4.0173	71.3	17.70±0.35
2108	Sonia - Susana	7,922,593	19,508,987	Bt-Rhyolite	biotite	7.18	0.4826	16.2	1.73±0.03
2109	Sonia - Susana	7,919,177	19,508,313	Bt-Hb-Dacite	biotite	6.05	0.3574	13.5	1.52±0.03
1863	Calorno	7,755,838	19,543,883	Ol-Hy-Aug-Bt Andesite	biotite	5.69	2.5948	59.1	11.69±0.23
2101	Calorno	7,765,981	19,545,979	Ol-Hy-Aug-Hb-Bt Andesite	biotite	6.46	2.2672	56.1	9.01±0.18
1042	Loma Llena	7,710,833	19,582,348	Hy Andesite	whole rock	3.70	0.5854	69.8	4.07±0.08
1043	Loma Llena	7,723,886	19,571,711	Aug-Hb Andesite	biotite	5.48	1.3309	47.8	6.24±0.12
1142	Loma Llena	7,710,067	19,579,257	Bt-Hy-Aug Andesite	biotite	4.72	0.6896	43.4	3.75±0.08

CONSTANS
Decay Constants : $\lambda_{\beta}=4.962\times10^{-10}yr^{-1}$ $\lambda_{\varepsilon}=0.572\times10^{-10}yr^{-1}$
Isotope abundance : $^{40}K/K=1.167\times10^{-4}$(atomic)

Aug=Augite   Bt=Biotite   Hy=Hypersthene
Hb=Hornblende   Ol=Olivine

Appendix 6 Results of Isotopic Dating

Appendix 7

Table of Ore Deposits and Ore Showings

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
1	Azurita mine	18 04 06 , 68 09 22	Ba-Cu	Stratabound Cu-Ag mineralization hosted by a fluvial coarse-grained sandstone to conglomerate sandwiched between two basalt flows. Sedimentary rocks, including shale, exhibit stratabound cuprite-native copper mineralization and are cut by subvertical fractures filled by cuprite-tennantite-celestite. Native copper, partly oxidized to chrysocolla, replaces calcite cement in basalt. Alteration minerals in basalt are chlorite, kaolinite, and carbonate. Exposed mineralized zone is 1 km long and consists of five mantos, each as thick as 1.6 m. Production (1948-62) was 70,000 t at 3.5-4.0% Cu. Reserves in 1969 were 660,000 t at 2.2% Cu. (Schneider-Scherbina, 1963; Murillo and others, 1969)
2	Sonia prospect	18 47 00 , 68 50 30	BPV	North end of a large alteration zone in an eroded stratovolcano complex. East-west veins and stockworks of Fe and manganese oxides in silicic, argillic and propylitic altered andesite and dacite. Altered zones have as much as 0.4 g/t Au and 16 g/t Ag. A sample of veinlet material had 2 g/t Au, 1,740 g/t Ag, 100 ppm As, and 110 ppm Sb. (MINTEC, oral commun., 1990; this study)
3	Paco Khaua prospect (Paco Cagua)	18 48 50 , 68 49 00	BPV	Sericitized, argillized, and silicified rhyolite cut by veins and stockworks of cassiterite and Pb, Cu, and Ag minerals. Average grade of surface samples was 0.01 g/t Au and 5 g/t Ag. (Empresa Minera Illimani, 1989)
4	Susana prospect	18 51 45 , 68 49 45	BPV	South end of a large alteration zone in an eroded stratovolcano complex. North-south veins of galena, Cu, Fe, and manganese oxides, and flourite? in silicic, argillic, and propylitic altered andesite and dacite. Altered zones have as much as 0.4 g/t Au and 16 g/t Ag. (MINTEC, oral commun., this study)
5	Paco Kkollu prospect (Cerro Jankho Willkhi)	18 50 30 , 68 39 00	BPV	Intensely altered rhyolite with disseminated silver mineralization. Values of 100-150 g/t Ag reported. (Pan Andean S.A., oral commun., 1990; this study)
6	Negrillos mine (La Plata)	18 50 26 , 68 37 42	BPV	Propylitized and argillized tuff and andesite breccia host three veins; two veins are oriented N. 70° W., dip 85° northeast are 300 m long and 1-40 cm wide, the other vein is oriented N. 50° E., dip 85° northeast to vertical, is 1 km long, and as wide as 1 m. Veins are composed of galena, sphalerite, tetrahedrite, pyrargyrite, polybasite, freibergite, chalcopyrite, quartz, pyrite, chalcedony, and rhodonite. Oxidized ore extends to 30 m depth and consists of masses and nodules of manganese oxides with cerussite. (Guerra and others, 1965b; Avila-Saslinas, 1965; this study)
7	Carangas mine (Orkho Thunko)	18 56 19 , 68 37 42	BPV	Two mineralized zones in rhyolite porphyry and explosion breccia of the Tertiary Carangas volcanics. N. 65° W. trending veins extend 1.7 km at Cerro San Antonio. Veins at Cerro Espirit Santo strike N. 65° W., are as wide as 12 cm, and occur in a 350 m wide zone. Veins contain cerargyrite, native silver, tennantite, proustite-pyrargyrite, sphalerite, galena, chalcopyrite, pyrite, chalcedony, opal, barite, Mn carbonate, siderite, sericite, and kaolinite. Host rhyolite is silicified, argillized, and pyritized. Past production is estimated at 1.5 million tonnes ore, leaving 10,000 t 35-50% Pb slag. Dump samples have as much as 20% Pb and 800 g/t Ag. (Schneider-Scherbina, 1962a; Guerra and others, 1965c; Avila-Salinas, 1965; this study)
8	Todos Santos mine	19 00 48 , 68 43 19	BPV	Argillized and chloritized rhyolite dome cut by N. 10° E. and N. 80° W. trending veins. Mineralized zone is 4 by 1 km in area and as thick as 50 m. Veins contain tetrahedrite, proustite-pyrargryite, stephanite, cerargyrite, miargyrite, argentite, sphalerite, galena, pyrite, quartz, hematite, and manganese oxides. Reserves estimated in 1988 are 1 million tonnes at 70 g/t Ag and 0.07 g/t Au. (McNamee, 1988)

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
9	Candelaria mine	19 37 50 , 67 41 47	BPV	Vein of Ag oxides, trending N. 55° W. Dip 60° north, 0.8 m wide, cuts vitric tuff. (Sanjines, 1968b)
10	Canguro prospect (Navidad, Cerro Kancha)	19 38 30 , 67 41 21	BPV	Silicified and brecciated andesite intruded by dacite and rhyolite dikes and cut by veins of galena, sphalerite, pyrite, siderite, quartz, and barite. At Cerro Kancha an extremely silicified, vuggy dacite is associated with zones of pervasive alunitic-advanced argillic and propylitic alteration. (MINTEC, oral commun., 1990; this study)
11	La Deseada mine	19 40 15 , 67 42 12	BPV	Altered tuff, flows, and volcanic breccia cut by east-west veins, 600-1,000 m long, 1-2.5 m wide, that dip 80° north to vertical. Veins contain galena, sphalerite, malachite, azurite, quartz, barite, and pyrite. Alteration is zoned, top to bottom, from silicification, silicification-argillization, to propylitization. (Medina and others, 1988; Uribe, 1989)
12	Guadalupe mine	19 41 20 , 67 42 28	BPV	Altered andesite cut by altered and mineralized dacite dikes oriented N. 70-85° E., dip 80° north to vertical, 100 to 1,000 m long, and as wide as 15 m. Dikes have a pervasive silicic overprint on argillic alteration. Andesite is propylitized with local argillic zones. Dikes carry enargite, tetrahedrite, azurite, malachite, quartz, barite, pyrite, and iron oxides. Reserves estimated in 1990 are 2.5 million tonnes at 0.4 g/t Au and 280 g/t Ag. Dumps contain 20,000 t at 0.4 g/t Au and 400 g/t Ag. (Sanjines, 1968a; Medina and others, 1988; Uribe, 1989; this study)
13	Maria Luisa mine	19 42 30 , 67 42 51	BPV	Weakly silicified Tertiary pyroclastics, flows, and breccias are cut by N. 70-80° W. trending dip 70° north to vertical vein systems as long as 3 km and generally 2 m wide. Veins have alteration halos of intense silicification and argillization that extend out 30 m. Altered wall rocks contain as much as 1% disseminated pyrite and unidentified dark sulfides. Veins contain sphalerite, galena, freibergite, argentite, stephanite, chalcopyrite, quartz, and pyrite. Oxidized ore consists of cerrussite, covellite, cerargyrite, jarosite, limonite, and specularite. Reserves in 1982 were 304,500 t at 4.4% Zn, 4.0% Pb, and 267 g/t Ag. (Sanjines, 1968a; Gamboa, 1982; Medina and others, 1988; Stilltoe, 1988; this study)
14	San Miguel and Margarita mines	19 43 54 , 67 40 40	BPV	San Miguel and Margarita mines work the same vein system that trends N. 45-75° W. or N. 80° E. dips 80° northeast to vertical. Veins are silicified and mineralized shear zones, range from 60 cm to 6 m wide, with ore shoots as long as 70 m. The ore shoots contain about 30% of the ore. Veins cut propylitized Tertiary pyroclastics and have argillic envelopes as wide as 2 m. Veins contain sphalerite, galena, chalcopyrite, quartz, pyrite, and ankerite. Reserves in 1967 were 253,000 t at 7% Pb and 84 g/t Ag. (Sanjines, 1968a; Medina and others, 1988; this study)
15	Hedionda mine (Santa Barbara de Jayula)	21 05 18 , 67 12 19	BPV	Mineralized brecciated contact between intrusive dacite porphyry and Upper Quehua Formation agglomerate. Alteration is argillic and ore minerals are native silver, galena, sphalerite, and pyrite. Mine was difficult to work because of CO2 gas. (Jacobson and others, 1969; Torrico, 1966)
16	Bertha, Colon, Tesorera and Trapiche mines	21 06 00 , 67 32 30	BPV	Veins of galena, argentite, sphalerite, pyrite, arsenopyrite, and siderite cut Upper Quehua Formation pyroclastics and dacite porphyry. Veins oriented north to northeast, oriented northeast dip 40° northwest, and oriented N. 55° E. dip 85° southeast, and are all 10-50 cm wide. (Rocha, 1958; Torrico, 1966; Murillo and others, 1967; Jacobson and others, 1969)
17	Animas mine (Joukia)	21 06 21 , 67 13 17	BPV	Mineralized breccia pipe cutting Eocene Potoco Formation sandstone and shale. Galena, sphalerite, and pyrite replace brec-

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
				cia matrix. Breccia pipe is 300 m long and 40 m wide, elongated N. 30° W. Breccia fragments and matrix are silicified and argillized. Reserves in 1966 were 131,250 t at 0.98% Pb and 1.0% Zn. (Vedia and Cortez, 1966d; Murillo and others, 1967; Torrico, 1966; Jacobson and others, 1969)
18	Inca and Toldos mines	21 06 40 , 67 12 20	BPV	Argillized biotite-hornblende dacite porphyry intrudes Eocene Potoco sandstone. Inca mine developed on north to N. 30° W. trending, 10-40 cm wide veins, dipping steeply northeast along contact between intrusive and sandstone. Open pit mine at Toldos works a 440 by 350 m zone, about 100 m deep, of N. 35-40° E. dips 55° northeast to vertical irregular branching veins in rhyodacite intrusive. Major veins exploited in colonial times were as wide as 1 m; veinlets worked today are 1-30 cm wide. Veins composed of native silver, stromeyerite, galena, sphalerite, tetrahedrite, chalcopyrite, pyrargyrite, polybasite, pyrite, barite, siderite, hematite, quartz, magnetite, and calcite. Reserves in 1990 were 3 million tonnes at 120 g/t Ag. An additional 4 million tonnes were indicated. (Torrico, 1996; Vedia and Cortez, 1966c; Delgadillo, 1967; Gamarra, 1968; Jacobson and others, 1969; Avilia-Salinas and others, 1975; this study)
19	Santa Calara mine (Clara)	18 02 26 , 68 20 10	SHCu	Chalcocite, malachite, azurite, and chrysocolla desseminated in bands 5-10 cm thick hosted by Miocene Turco Formation tuffaceous sandstone and crystal tuff. Reserves in 1969 estimated at 1,960 t at 5.6% Cu. (Murillo and others, 1969; Kuronuma, 1971)
20	Corona de Espana mine	18 07 30 , 68 09 00	SHCu	Small nodules, dendrites, and bands of native copper in about five mantos, each as much as 38 m long and 1 m thick hosted by Miocene Turco Formation sandstone. Ore is oxidized to cuprite, azurite, malachite, and chrysocolla to a depth of 30-50 m. Ore developed by workings in 1969 estimated at 4,230 t at 3.25% Cu. (Barrios and Prevost, 1970)
21	Cuprita mine	18 15 55 , 68 03 52	SHCu	Lenses of native copper, cuprite, and other copper oxides, 5-50 m in diameter, spaced 50-300 m apart in a belt 6.5 km long hosted by Miocene Azurita Formation conglomerate and sandstone. Copper oxides found in cement in conglomerate and native copper, partly oxidized, is found in sandstone. Reserves in 1958 estimated at 138,000 t at 2.0% Cu. (Georgi, 1958; Murillo and others, 1969)
22	Cobrizos mine	20 59 37 , 67 12 36	SHCu	Veinlets of chalcocite, covellite, cuprite, malachite, and azurite, accompanied by veinlets of gypsum, and carbonate, in fractures that follow or cut stratification in Eocene Potoco Formation sandstone. In places sandstone is cemented by calcite, azurite, and iron oxides and cut by calcite veinlets. Copper carbonates occur as mantos in Quaternary Minchin Formation limestone. Workings strongly contaminated by CO2 gas. Reserves in 1957 estimated at 400,000 t at 0.6% Cu and 0.1 g/t Ag. (Lyons, 1957; Servicio Geologico de Bolivia, 1971o)
23	Puntillas mine	21 03 17 , 67 26 18	SHCu	Veins, 3-28 cm wide, and mantos, as much as 50 m long and 10 cm thick, of brochantite, malachite, tenorite, chrysocolla, chalcedony, and manganese oxide mineralization hosted by Miocene San Vicente Formation conglomerate. Reserves in 1971 estimated at 1,760 t at 7.7% Cu. (Servicio Geologico de Bolivia, 1971ll)
24	Ines mine	21 06 27 , 67 27 10	SHCu	Chalcocite, tenorite, malachite, azurite, and chrysocolla mineralization in a manto hosted by gypsiferous Eocene Potoco Formation sandstone. Reserves in 1970 estimated at 15,100 t at 3.6% Cu. (Servicio Geologico de Bolivia, 1971w)
25	Koholpani mine	21 11 30 , 67 09 15	SHCu	Chalcocite, malachite, and azurite mineralization in a manto 20-90 cm thick hosted by Oligocene Lower Quehua Formation

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
				calcareous conglomerate. (Servicio Geologico de Bolivia, 1971y)
26	Wara Wara prospect	18 13 30 , 68 32 30	UA	Altered, eroded Tertiary andesite-dacite stratovolcano. Alteration types include argillic, silicic, seritic and alunitic. Values as much as 0.04 g/t Au, 1 g/t Ag, 230 ppm As, and 18 ppm Sb measured. (MINTEC, oral commun., 1990; this study)
27	Turaquiri mine	18 08 17 , 68 25 16	UA	Pb-Ag veins in altered and eroded stratovolcano complex. (Ahlfeld, 1954)
28	Copajuyo prospect	18 05 25 , 68 06 36	UA	Argillized and silicified dacite flows and intrusive overly Tertiary sandstone. Disseminated chalcopyrite, pyrite, specularite, and magnetite found in sandstone. Values as much as 0.5 g/t Au and 15 g/t Ag measured in both dacite and sandstone. (MINTEC, oral commun., 1990)
29	Potosi prospect	18 51 21 , 68 11 54	UA	Altered volcanics (MINTEC, oral commun., 1990)
30	Cerro Tiquerani Sur occurrence	17 40 18 , 69 11 40	UA	Altered Tertiary intrusive. (Montes de Oca and others, 1963)
31	Cerro Canasita prospect	1747 51 , 69 09 09	UA	Altered Tertiary andesite. (MINTEC, oral commun., 1990)
32	La Riviera prospect	17 49 29 , 69 07 08	UA	Western zone has propylitized andesite with tetrahedrite, native silver, cuprite, malachite, azurite, and chrysocolla mineralization with as much as 2% Cu and 50 g/t Ag. Eastern zone has argillic and silicic alteration with hypogene alunite and disseminated pyrite in andesite cut by veinlets of chalcedony, jarosite, and limonite with 0.1-0.3 g/t Au, and as much as 20 g/t Ag, 200 ppm As and 80 ppm Sb. Rhyolite dikes and sills intrude andesite. (MINTEC, oral commun., 1990)
33	La Montura prospect	17 57 00 , 69 14 50	UA	Argillized andesite with traces of Au, as much as 600 ppm As, and less than 1 g/t Ag. (MINTEC, oral commun., 1990)
34	La Escondida prospect (Wacan Kkkollu)	17 47 56 , 68 53 40	UA	Argillized, silicified and pyritized andesite covering an area of 250,000 km2. Disseminated iron oxides, opal, pyrite, jarosite, and barite with 2-4 g/t Ag and 0.02-0.03 g/t Au. (Empresa Minera Illimani, 1989)
35	Mantos Negros mine	17 55 22 , 68 53 44	UA	Irregular deposit of manganese oxides in altered (agrillic?) andesite. Nearby zone of hydrothermal breccia with about 2 g/t Ag and 0.02-0.03 g/t Au. (Empressa Minera Illmani, 1989)
36	Blanca Nieves prospec	18 03 08 , 69 04 02	UA	Altered stratovolcano. (MINTEC, oral commun. 1990)
37	Nevado Sajama prospect	18 0634 , 68 52 18	UA	A reported fumarolicsulfur occurrence is disuted by Ahlfield and Schneider-Scherbina (1964). Sb mineralization is also reported to occur.
38	Caupolican prospect	18 18 00 , 68 47 43	UA	Altered stratovolcano. (MINTEC, oral commun., 1990)
39	Pacuni prospect	18 18 00 , 68 49 00	UA	Ag-Pb vein in altered dacite breccia and intrusive in eroded stratovolcano. (MINTEC, oral commun., 1990)
40	Mantos mine (Mantu)	18 53 19 , 68 47 43	UA	Cu mine in Carangas Formation located on 1:100,000 geologic map. Site visit found only green clay. (Ponce and Avila, 1965; this study)
41	Milenka prospect (Cerro Curumaya)	19 00 51 , 68 49 47	UA	Silicified, seritized, and argillized hornblende-pyroxene andesite and biotite dacite in eroded core of a stratovolcano. Au values as much as 0.2 g/t and Ag less than 1 g/t found. Possible remnants of solfataric alteration and native sulfur mineralization. (MINTEC, oral commun., 1990; this study)
42	Maria Elena prospect	19 04 18 , 68 42 14	UA	Opalized subvolcanic dacite intrusive in core of a late Miocene

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
	(Cerro Culebra)			argillized andesite stratovolcano. Northeast-trending silicic sills and dikes also cut andesite. Disseminated pyrite and jarosite mineralization with as much as 0.5 g/t Au and less than 1 g/t Ag. (MINTEC, oral commun., 1990; this study)
43	Anita prospect	19 08 27 , 68 36 07	UA	Argillized and silicified andesite and dacite cut by north-south and east-west trending fault veins. Values as much as 0.5 g/t Au found. (MINTEC, oral commun., 1990)
44	Casinquira mine	19 10 50 , 68 27 18	UA	Pb-Ag mine on southwest base of Cerro Pariani stratovolcano located on Villa Vitalina (5936-III) 1:50,000 topographic map.
45	Paola prospect	19 19 00 , 68 17 45	UA	Altered Quaternary stratovolcano. (MINTEC, oral commun., 1990)
46	Santa Catalina occurrence	19 39 55 , 67 40 05	UA	Iron oxide bearing hot spring deposits. (This study)
47	Inexa prospect	19 43 16 , 67 57 01	UA	Intense siliceous and argillic alteration in brecciated hornblende dacite lava flows, with limonite boxwork gossan, intruded by hornblende dacite. (MINTEC, oral commun., 1990; this study)
48	Ano Nuevo prospect	19 43 08 , 67 49 07	UA	Veins trending N. 30° E. And N. 45-60° W. With silicified alteration envelopes cut propylitized and locally sericitized and argillized Tertiary? andesite and dacite. Veins contain galena and sphalerite and less than 0.05 g/t Au and as much as 87 g/t Ag. Prospect may occur in a window of older Tertiary volcanics and therefore may ba a Bolivian polymetallic vein system similar to Mara Luisa to the east. (MINTEC, oral commun., 1990; this study)
49	Cerro Santaile prospect	19 54 51 , 68 30 40	UA	Silicified zone 10-30 m wide, 1.3 km long, cut by thick quartz-pyrite veins hosted by late Tertiary conglomerate and pyroclastics. Extensive sampling found 0.03-1.6 g/t Au and 0.2-3.5 g/t Ag. (McNamee, 1985b)
50	Chinchilhuma (Cerro Chinchilhuma) district. (Aguilani, Baltazar, Condor, San Juan, San Salvador mines)	19 59 00 , 68 21 00	UA	Veins, trending N. 10° W. dip 75-80° southwest and as wide as 20 cm of pyrite, galena, sphalerite, jacobsite, cuprite, malachite, casserite, and specularite cut late Miocene hornblende dacite intruded by rhyolite. Mineralized zones are brecciated. Alteration consists of silicification and argillization. (Sanjines, 1968b; McNamee, 1985a; this study)
51	Cerro Puquisa occurrence	20 04 15 , 68 22 00	UA	Chrysocolla and malachite fill vesicules in andesite in a zone 25 m wide. (This study)
52	Cerro Panizo prospect	20 05 04 , 68 29 43	UA	Altered stratovolcano. (MINTEC, oral commun., 1990)
53	Cerro Pescado occurrence	20 09 00 , 67 49 00	UA	Chrysocolla and malachite fill vsicles in andesite in a zone 25 m wide. (This study)
54	Veta Kkollu mine	20 19 15 , 67 55 34	UA	Cu mine in Tertiary Yonza Formation located on Cerro Pabellon (6033-III) 1:50,000 topographic map.
55	Mac I prospect	20 38 34 , 68 25 03	UA	Altered Pliocene stratovolcano. (MINTEC, oral commun., 1990)
56	Cerro Colorado mine	20 33 57 , 67 59 19	UA	Veins less than 3 cm wide of malachite and azurite in fractured Tertiary Yonza Formation basalt (Bustillos, 1996)
57	Cerro Pabellon deposit	20 37 44 , 67 58 21	UA	Stocwork of specularte veins in 800m diameter zone in Tertiary sediments intruded by andesite. Veins varry trace amount of Sn, Co, Cu, Ga, Mo, Ni, and V.(Bustillos, 1966)
58	Solucion mine (Malil)	20 39 52 , 67 45 01	UA	A N. 10° W. Vein 20-30 cm wide, cuts dacite. Vein contains galena, sphalerite, limonite, and hematite. Reserves in 1971 esti-

Source: U.S. Geological Survey, 1975

Appendix 7 Table of Ore Deposits and Ore Showings

No.	Site name	Lat. S. , Long W.	Type	Deposit description and references
				mated as 3,000 t at 1.4% Pb and 1.4% Zn. Values in Ag as much as 24 g/t. (Servicio Geologico de Bolivia, 1971rr)
59	Plasmar mine	20-38-58 , 67 38 41	UA	Rhyodacite cut by veins of galena, pyrite, and hematite. Workings exploit an ore shoot 1-3 m wide. (Ballivian and Vargas, 1971)
60	Miilunu occurrence	20 51 45 , 68 33 15	UA	Large area of iron oxide bearing silicified andesite that extends across the border from Chile. Samples taken on the Chilean side of the border have as much as 93 ppm Cu, 29 ppm Mo, 117 ppm Pb, 10 ppm Zn, 0.4 g/t Ag, and less than 20 ppb Au. (Vergara and Thomas, 1984)
61	Cerro Tomasamil prospect	21 17 00 , 67 57 40	UA	Veins trend east-west dip 80° north, as wide as 5 m, and trend N 10° E., 10-20 cm wide, cut altered hornblende andesite. Veins contain iron oxides, sericite, hematite, and clay. A separate brecciated zone is cemented by magnetite, sphalerite, and specularite. Alteration minerals are sericite, hematite, limonite, and clay. (Sanjines and others, 1986b)
62	Cuidado mine	21 15 30 , 67 42 30	UA	Vertical N. 45° W. Trending breccia zones cut argillized, sericitized, and silicified dacite porphyry. Mineralized and altered zone s 12 km2 in area. Breccia contains quartz, pyrite, and barite and has values of as much as 0.7% Sb and 150 g/t Ag.(Officier 1917a; this study)
63	Eskapa mine	21 13 35 , 67 41 20	UA	Vertical N. 10° W. trending veins cut brecciated biotite dacite porphyry dome. Veins contain tenorite, chrysocolla, malachite, and calcite with as much as 30 g/t Ag and 0.3% Pb. (Officer, 1917a; this study)

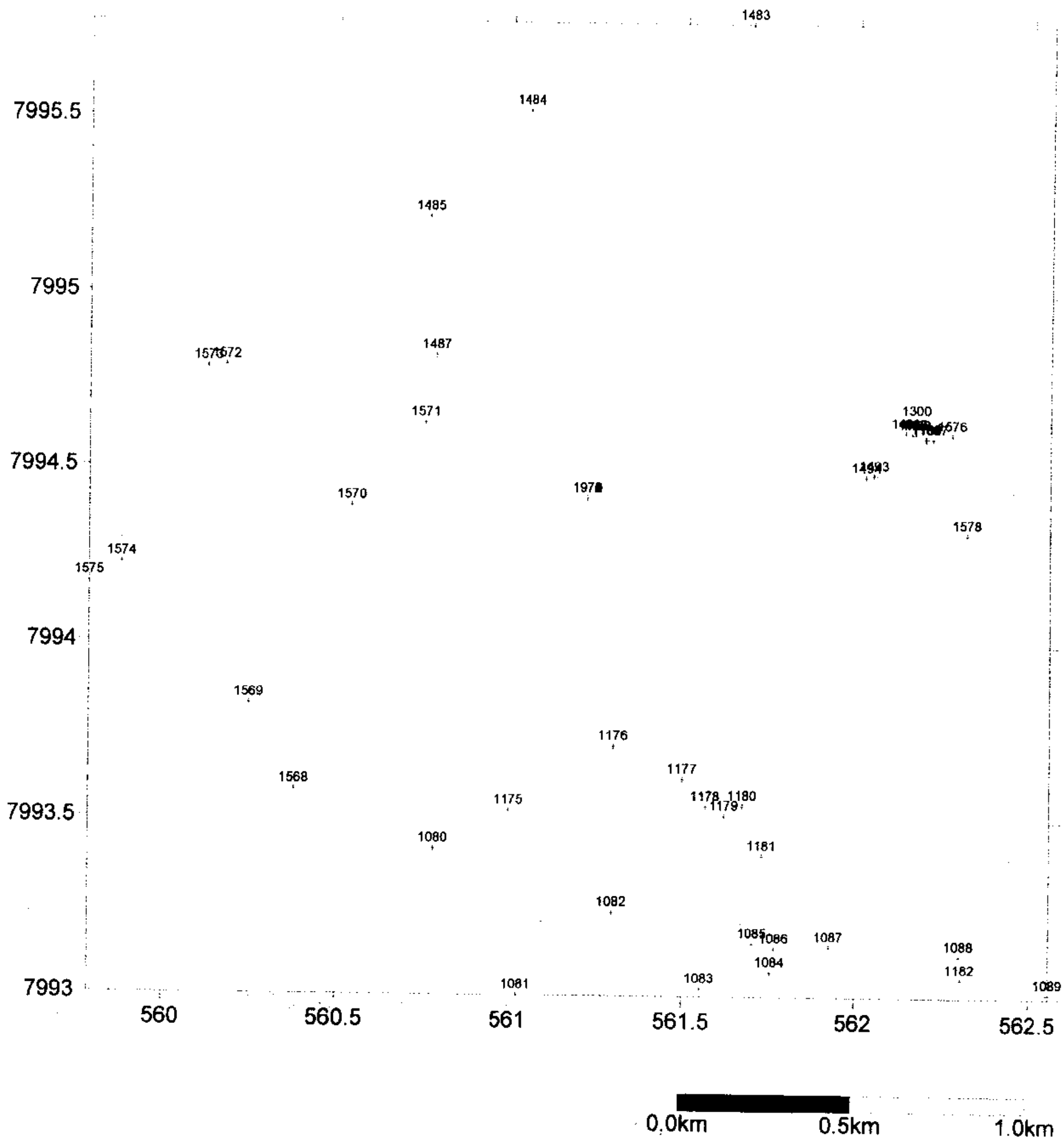
Legend
Ba-Cu: Basaltic Copper Deposits
BPV: Bolivian Polymetallic Vein Deposits
SHCu: Sediment-hosted Copper Deposits
UA: Unassigned Deposits

Source: U.S. Geological Survey, 1975

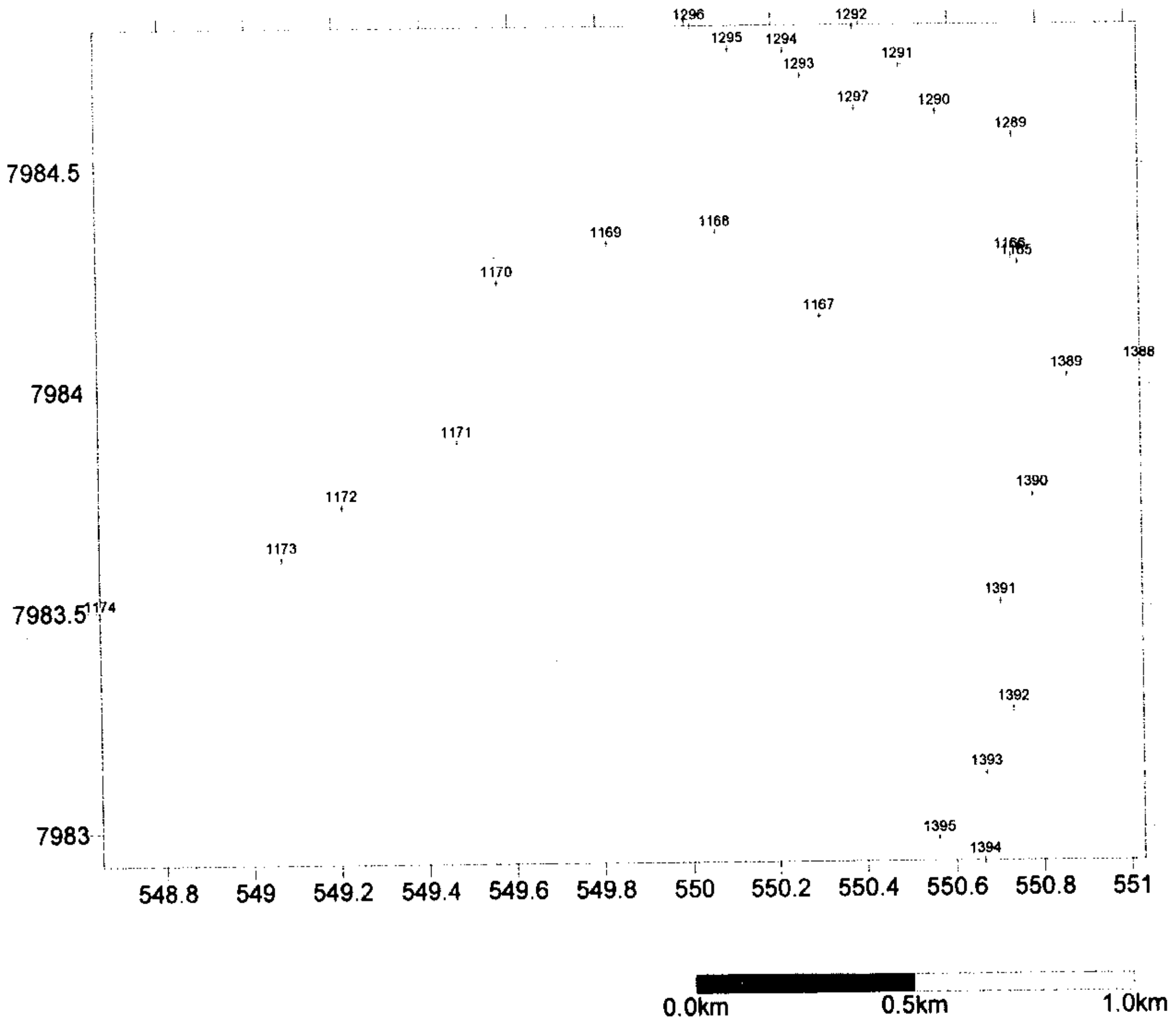
Appendix 8

Location Map of Samples

Turaquiri

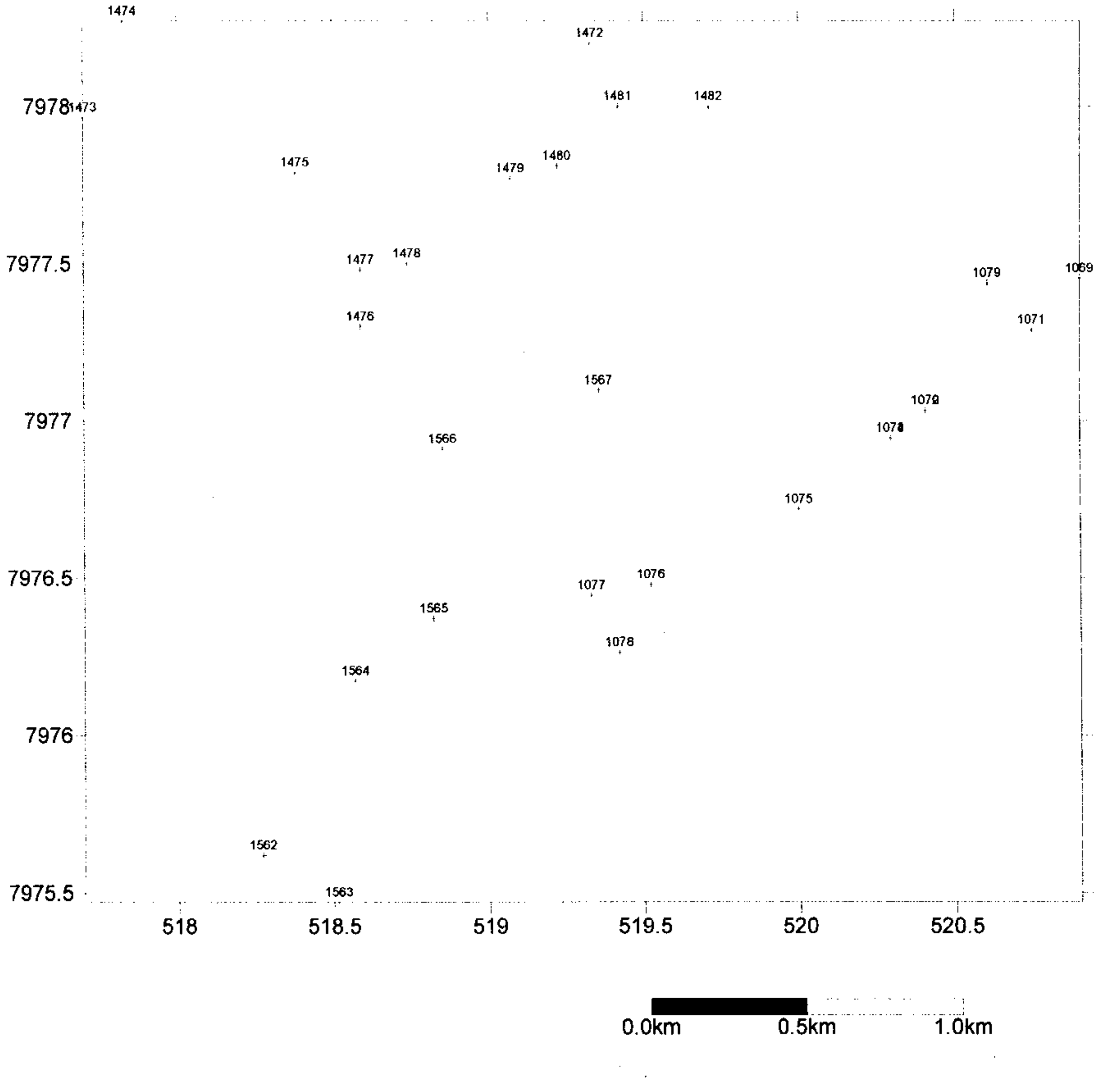

1483
1484
1485
1487
1571
1570
1574
1575
1578
1300
1569
1176
1177
1568
1175
1180
1179
1080
1181
1082
1086
1087
1088
1084
1182
1081
1083
1089
7995.5
7995
7994.5
7994
7993.5
7993
560
560.5
561
561.5
562
562.5
0.0km
0.5km
1.0km

Asu Asuni

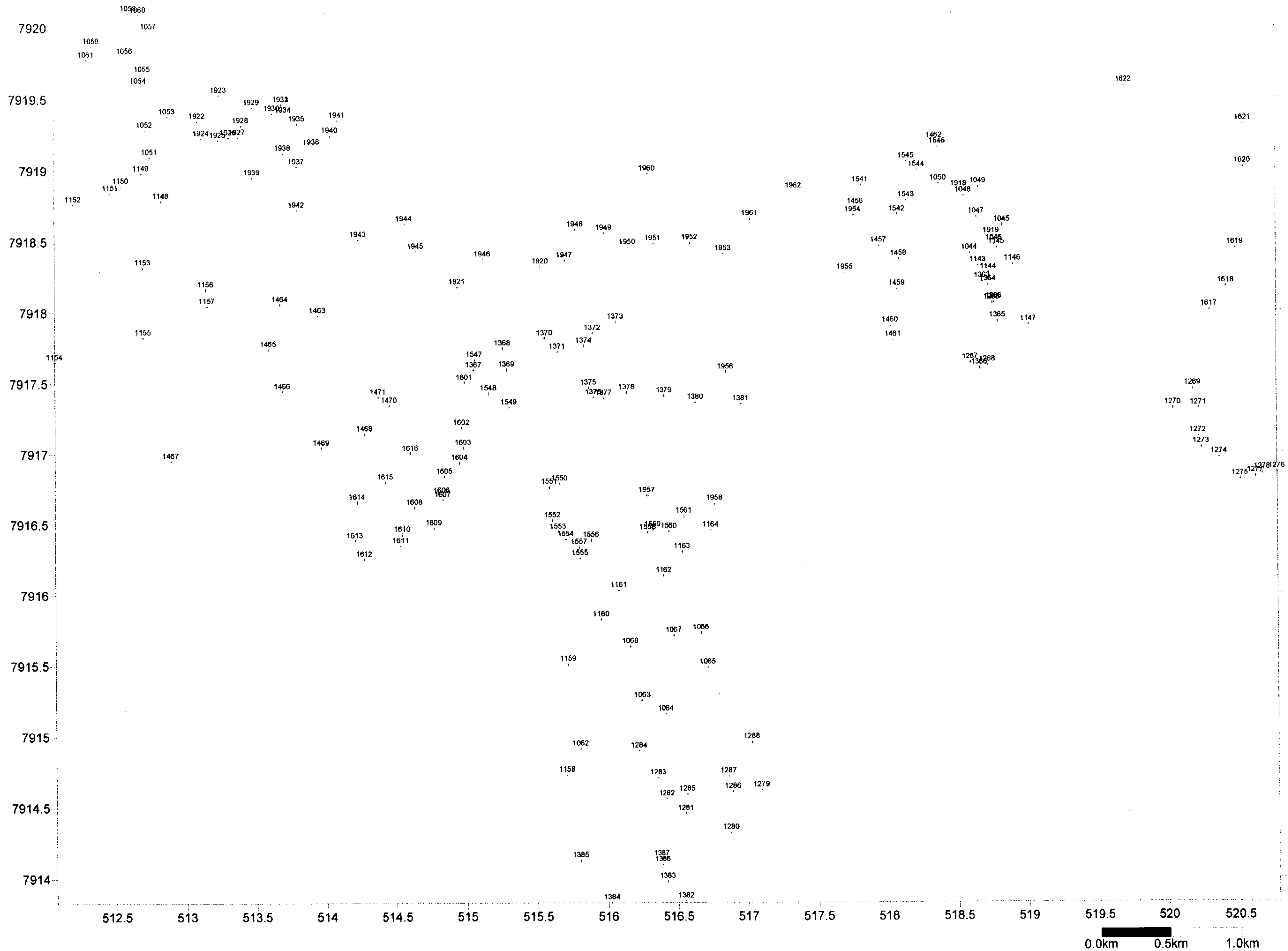


1296
1292
1295
1294
1293
1291
1297
1290
1289
7984.5
1168
1169
1166
1165
1170
1167
1389
1388
7984
1171
1390
1172
1173
7983.5
1174
1391
1392
1393
7983
1395
1394
548.8
549
549.2
549.4
549.6
549.8
550
550.2
550.4
550.6
550.8
551
0.0km
0.5km
1.0km

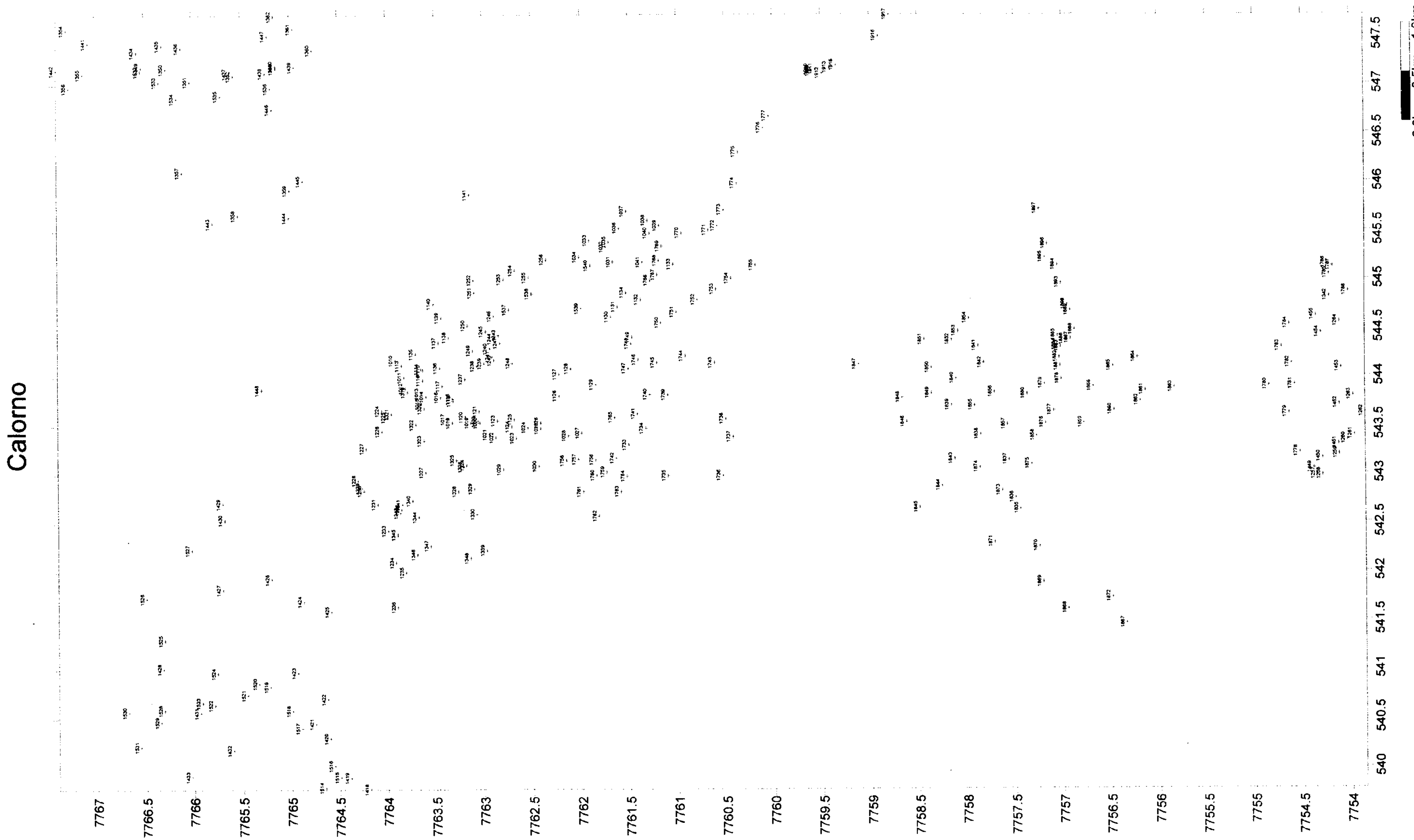
Chullcani


1474
1472
7978
1473
1481
1482
1475
1479
1480
7977.5
1477
1478
1079
1069
1476
1071
1567
1070
7977
1073
1566
1075
7976.5
1077
1076
1565
1078
1564
7976
1562
7975.5
1563
518
518.5
519
519.5
520
520.5
0.0km
0.5km
1.0km

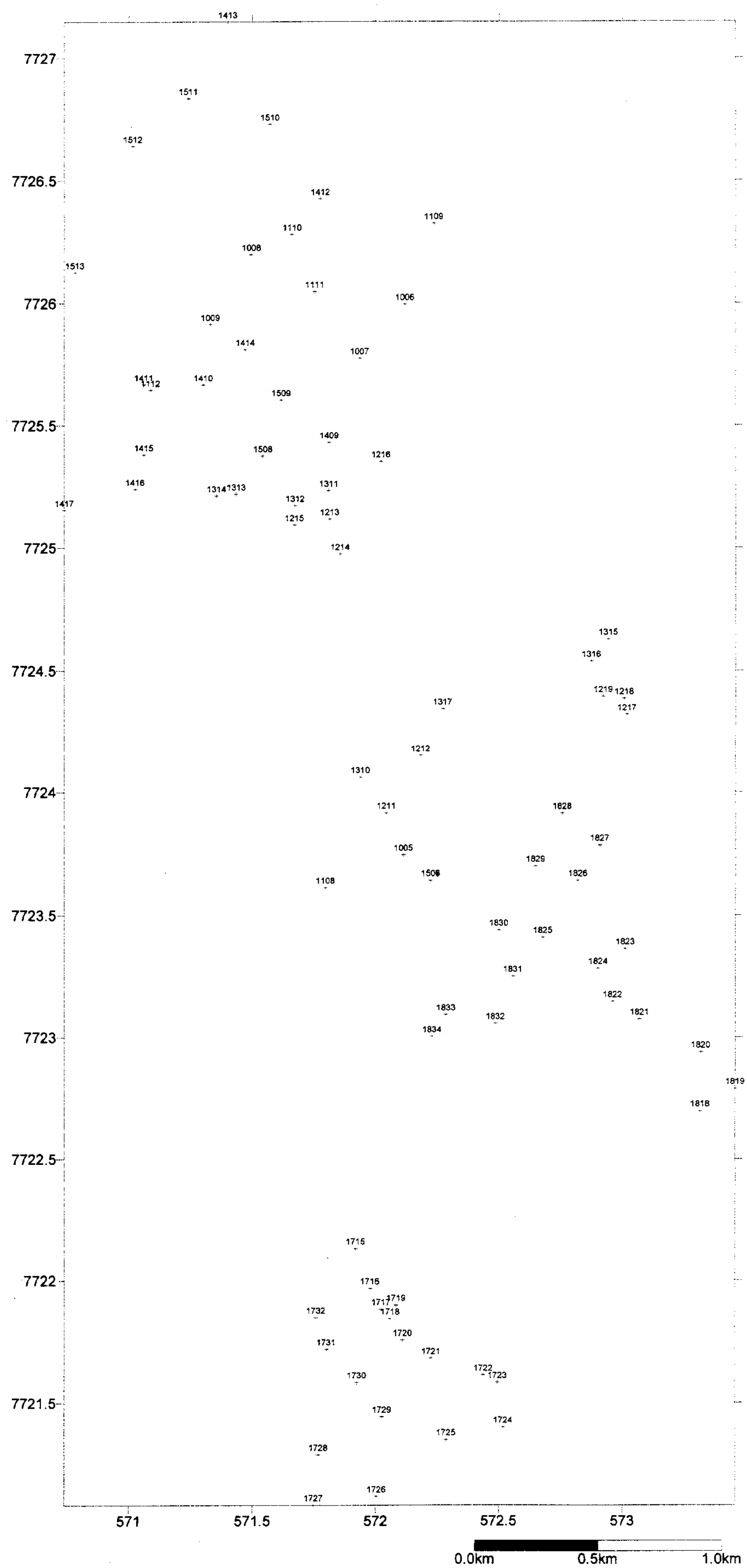
Sonia Susana



- A97 ~ A98 -

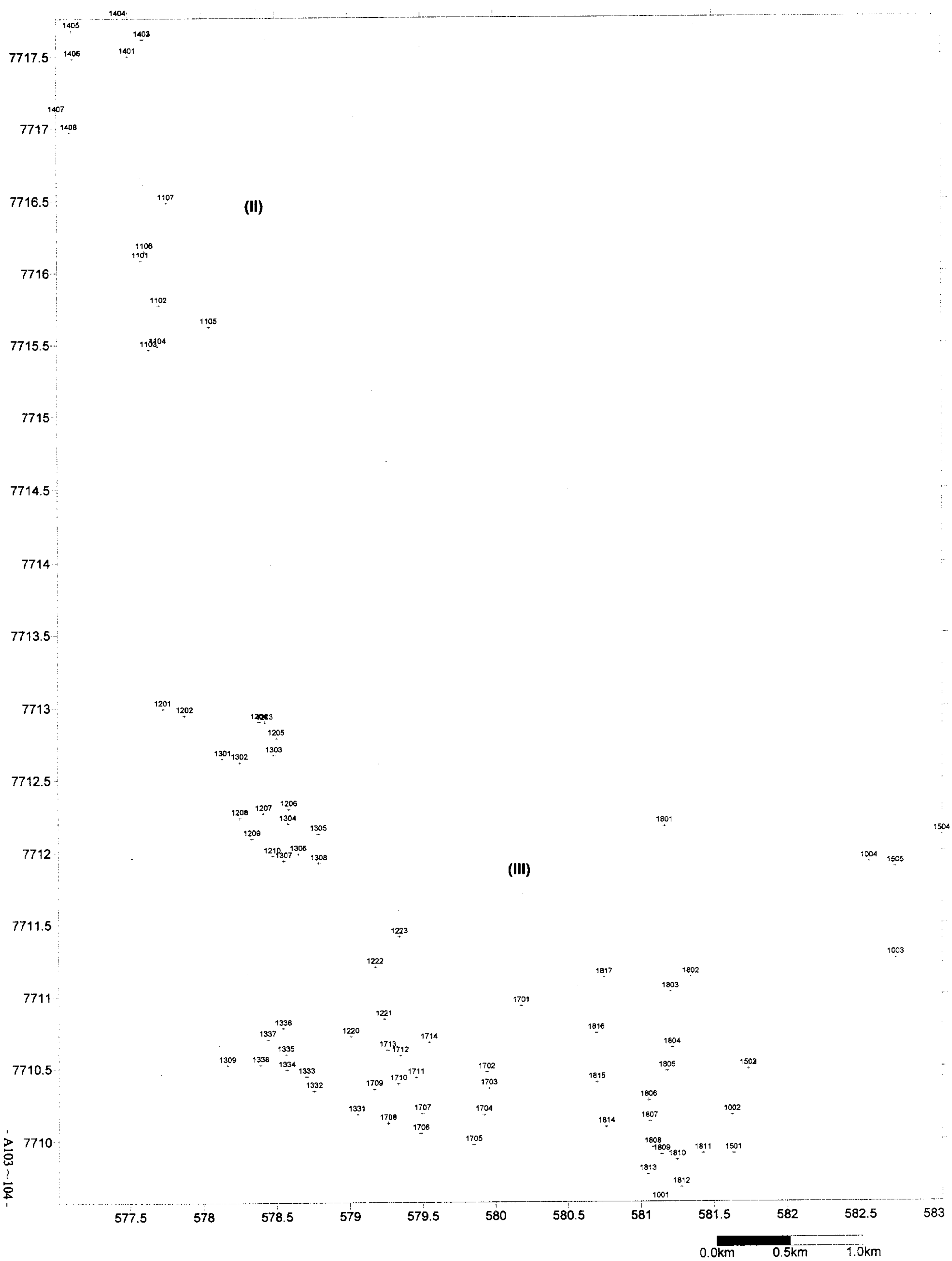

Calorno
0.0km 0.5km 1.0km
7767 7766.5 7766 7765.5 7765 7764.5 7764 7763.5 7763 7762.5 7762 7761.5 7761 7760.5 7760 7759.5 7759 7758.5 7758 7757.5 7757 7756.5 7756 7755.5 7755 7754.5 7754
540 540.5 541 541.5 542 542.5 543 543.5 544 544.5 545 545.5 546 546.5 547 547.5

Lomallena(I)



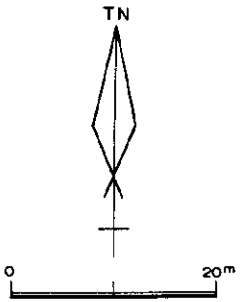
7727
7726.5
7726
7725.5
7725
7724.5
7724
7723.5
7723
7722.5
7722
7721.5
571
571.5
572
572.5
573
0.0km
0.5km
1.0km
1413
1511
1510
1512
1412
1109
1110
1008
1513
1111
1006
1009
1414
1007
1411
1112
1410
1509
1409
1415
1508
1216
1416
1314
1313
1311
1417
1312
1213
1215
1214
1315
1316
1219
1218
1217
1317
1212
1310
1211
1828
1827
1005
1829
1506
1826
1108
1830
1825
1823
1831
1824
1822
1833
1832
1821
1834
1820
1819
1818
1715
1716
1717
1719
1732
1718
1720
1731
1721
1722
1723
1730
1729
1724
1725
1728
1726
1727

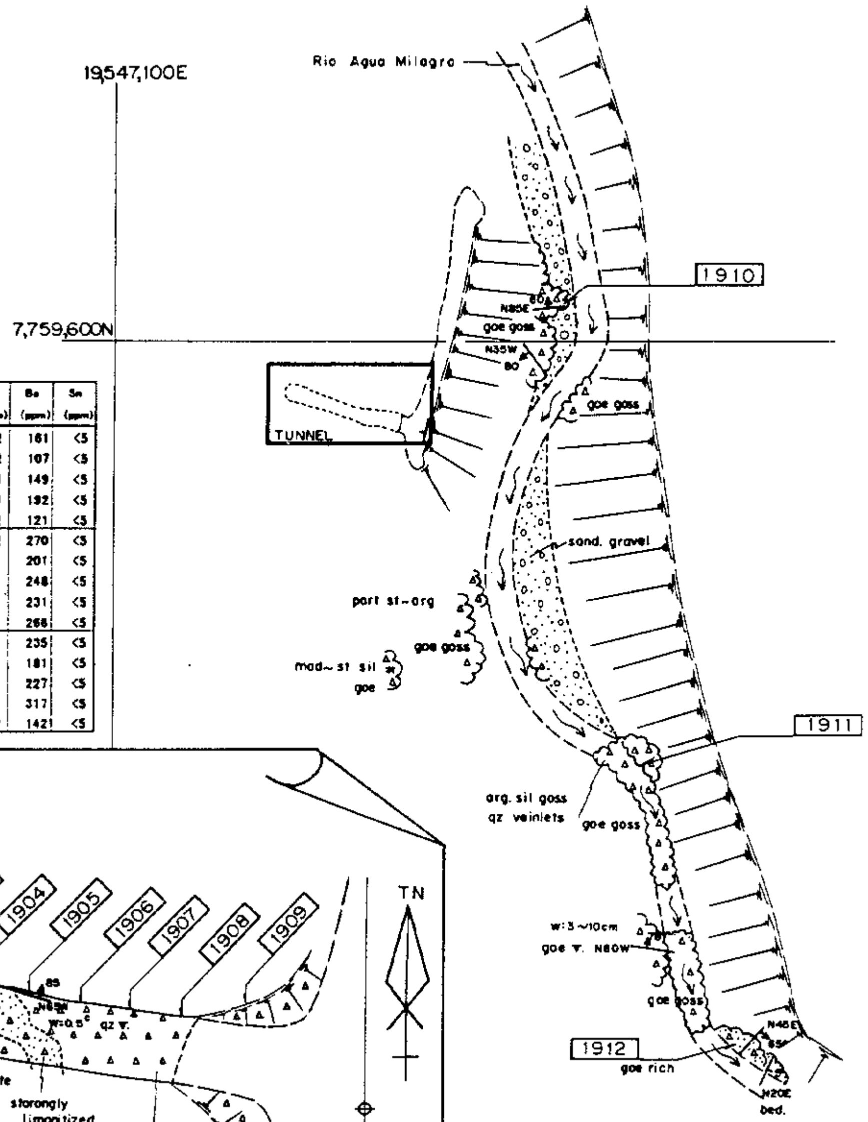
Lomallena (II) (III)



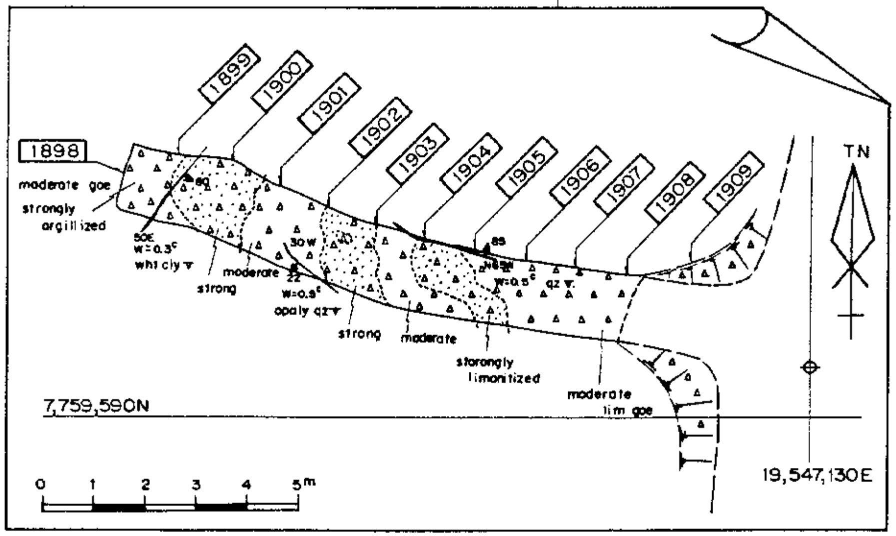
THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA REPUBLIC OF BOLIVIA

Sample Location Map (Calomo District)





Sample No.	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Mo (ppm)	Ba (ppm)	Sn (ppm)
1898	<2	<0.5	8	<3	19	64	<5	20	2	161	<5
1899	<2	<0.5	14	15	32	156	<5	30	2	107	<5
1900	<2	<0.5	17	42	67	200	<5	30	1	149	<5
1901	<2	<0.5	13	102	30	232	<5	30	1	192	<5
1902	<2	<0.5	12	82	30	254	<5	20	2	121	<5
1903	<2	<0.5	17	245	34	347	<5	20	2	270	<5
1904	<2	<0.5	14	78	32	238	<5	30	<1	201	<5
1905	<2	<0.5	14	83	35	255	<5	20	<1	248	<5
1906	<2	<0.5	12	50	28	188	<5	40	<1	231	<5
1907	<2	<0.5	17	25	36	209	<5	20	<1	266	<5
1908	<2	<0.5	13	51	28	206	<5	30	<1	235	<5
1909	<2	<0.5	11	47	21	177	<5	40	1	181	<5
1910	<2	<0.5	10	19	22	188	<5	20	1	227	<5
1911	<2	<0.5	42	18	82	482	<5	20	<1	317	<5
1912	<2	<0.5	39	22	85	918	<5	10	2	1421	<5



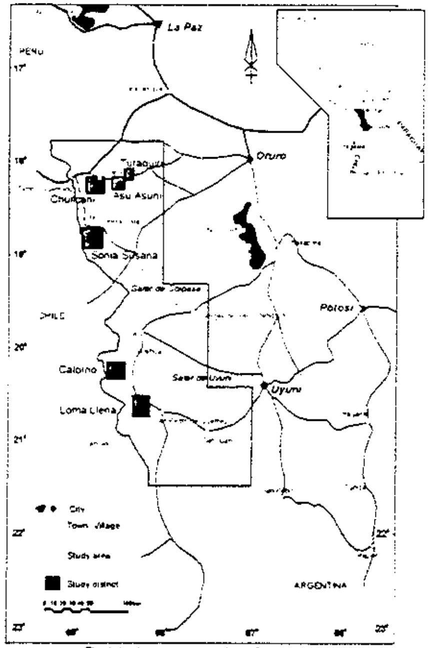
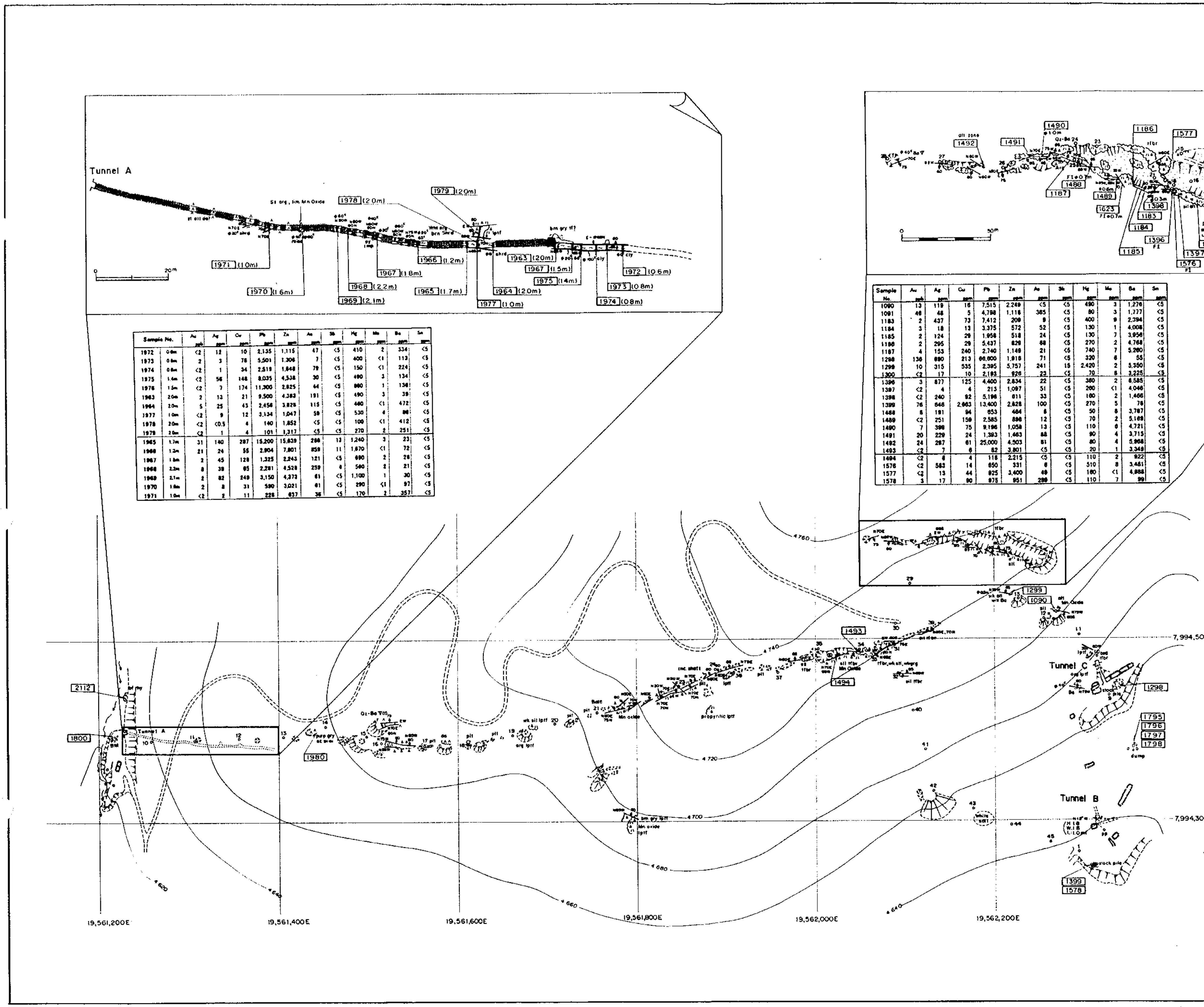


Fig. I-1 Location Map of the Survey Area

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH 2000



Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1972	0.6m	<2	12	10	2,135	1,115	47	<5	410	2	334	<5
1973	0.8m	2	3	78	5,501	1,306	7	<5	400	<1	113	<5
1974	0.8m	<2	1	34	2,519	1,848	79	<5	150	<1	224	<5
1975	1.4m	<2	56	148	8,035	4,538	30	<5	490	3	134	<5
1976	1.5m	<2	7	174	11,300	2,825	64	<5	860	1	138	<5
1963	2.0m	2	13	21	9,500	4,383	191	<5	490	3	39	<5
1964	2.0m	5	25	43	2,456	3,828	115	<5	460	<1	472	<5
1977	1.0m	<2	9	12	3,134	1,047	59	<5	530	4	86	<5
1978	2.0m	<2	<0.5	4	140	1,852	<5	<5	100	<1	412	<5
1979	2.0m	<2	1	4	101	1,317	<5	<5	270	2	251	<5
1965	1.7m	31	140	287	15,200	15,639	288	13	1,240	3	23	<5
1966	1.2m	21	24	55	2,904	7,801	859	11	1,870	<1	72	<5
1967	1.8m	2	45	128	1,325	2,243	121	<5	690	2	28	<5
1968	2.2m	8	38	85	2,281	4,528	259	8	560	2	21	<5
1969	2.1m	2	82	249	3,150	4,373	61	<5	1,100	1	30	<5
1970	1.6m	2	8	31	590	3,021	61	<5	290	<1	97	<5
1971	1.0m	<2	2	11	228	837	36	<5	170	2	357	<5

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1090	13	119	16	7,515	2,249	<5	<5	490	3	1,276	<5
1091	48	48	5	4,798	1,118	385	<5	80	3	1,777	<5
1183	2	437	73	7,412	209	9	<5	400	9	2,394	<5
1184	3	18	13	3,375	572	52	<5	130	1	4,008	<5
1185	2	124	29	1,958	518	24	<5	130	7	3,958	<5
1186	2	295	29	5,437	829	88	<5	270	2	4,768	<5
1187	4	153	240	2,740	1,149	21	<5	740	7	5,280	<5
1298	138	890	213	66,800	1,918	71	<5	320	6	55	<5
1299	10	315	535	2,395	5,757	241	15	2,420	2	5,350	<5
1300	<2	17	10	2,193	926	23	<5	70	8	3,225	<5
1396	3	877	125	4,400	2,834	22	<5	380	2	6,585	<5
1397	<2	4	4	213	1,097	51	<5	200	<1	4,046	<5
1398	<2	240	92	5,196	611	33	<5	160	2	1,466	<5
1399	76	646	2,663	13,400	2,628	100	<5	270	5	76	<5
1488	8	191	94	653	464	8	<5	50	8	3,787	<5
1489	<2	251	159	2,585	896	12	<5	70	2	5,169	<5
1490	7	398	75	9,196	1,058	13	<5	110	6	4,721	<5
1491	20	229	24	1,393	1,463	88	<5	90	4	3,715	<5
1492	24	287	61	25,000	4,503	81	<5	80	4	5,968	<5
1493	<2	7	6	82	3,801	<5	<5	20	1	3,349	<5
1494	<2	6	4	118	2,215	<5	<5	110	2	922	<5
1576	<2	583	14	650	331	6	<5	510	8	3,481	<5
1577	<2	13	44	925	3,400	49	<5	180	<1	4,988	<5
1578	3	17	90	975	951	288	<5	110	7	99	<5

THE MINERAL EXPLORATION
IN THE ORURO-UYUNI AREA
REPUBLIC OF BOLIVIA

Sample Location Map
(Turaquiri District)

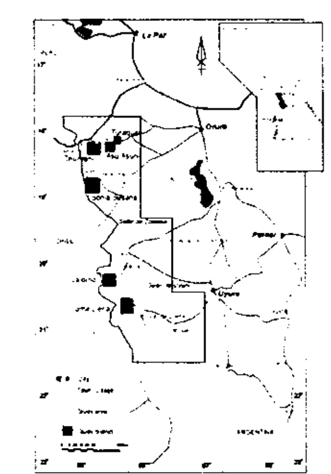
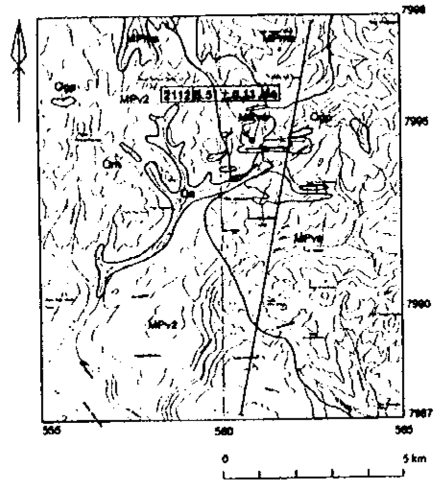


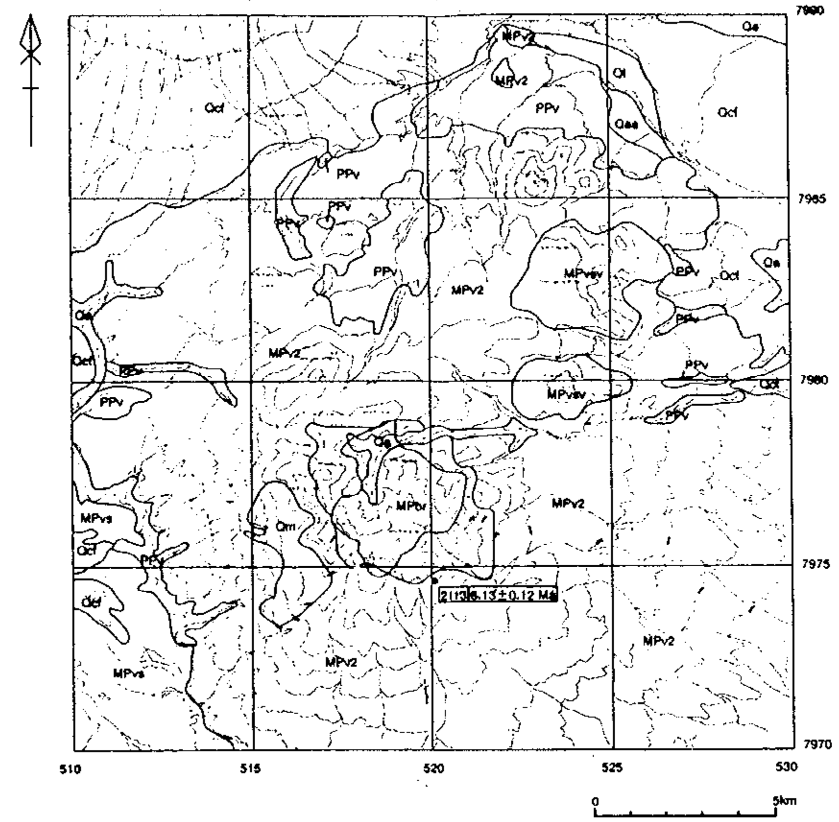
Fig 1-1 Location Map of the Survey Area

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH 2000

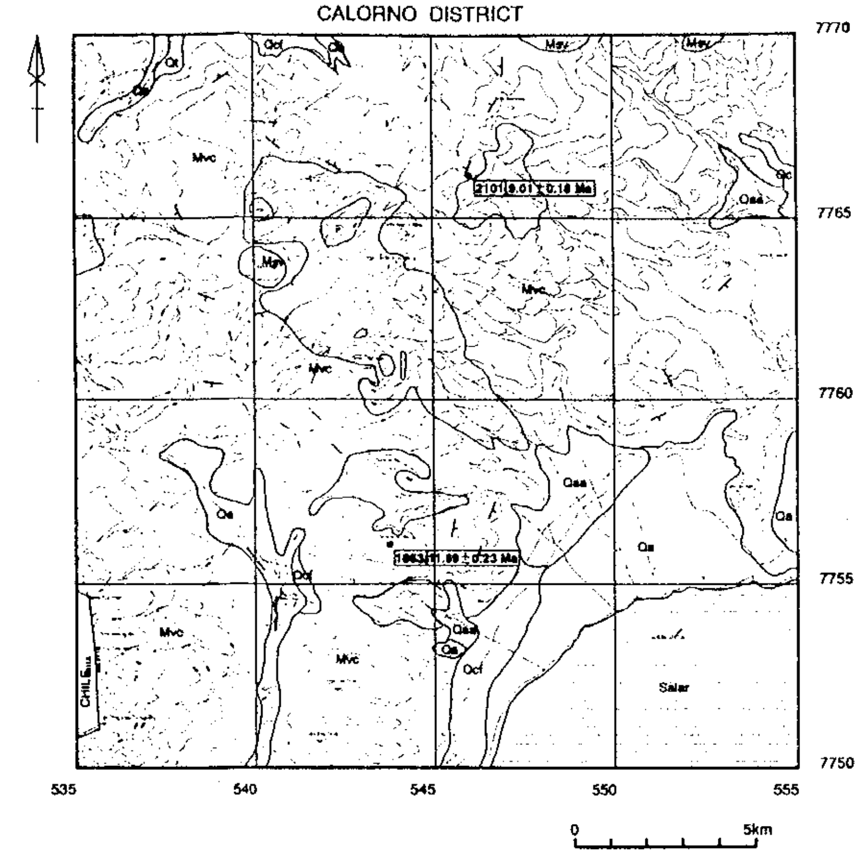
TURAQUIRI DISTRICT



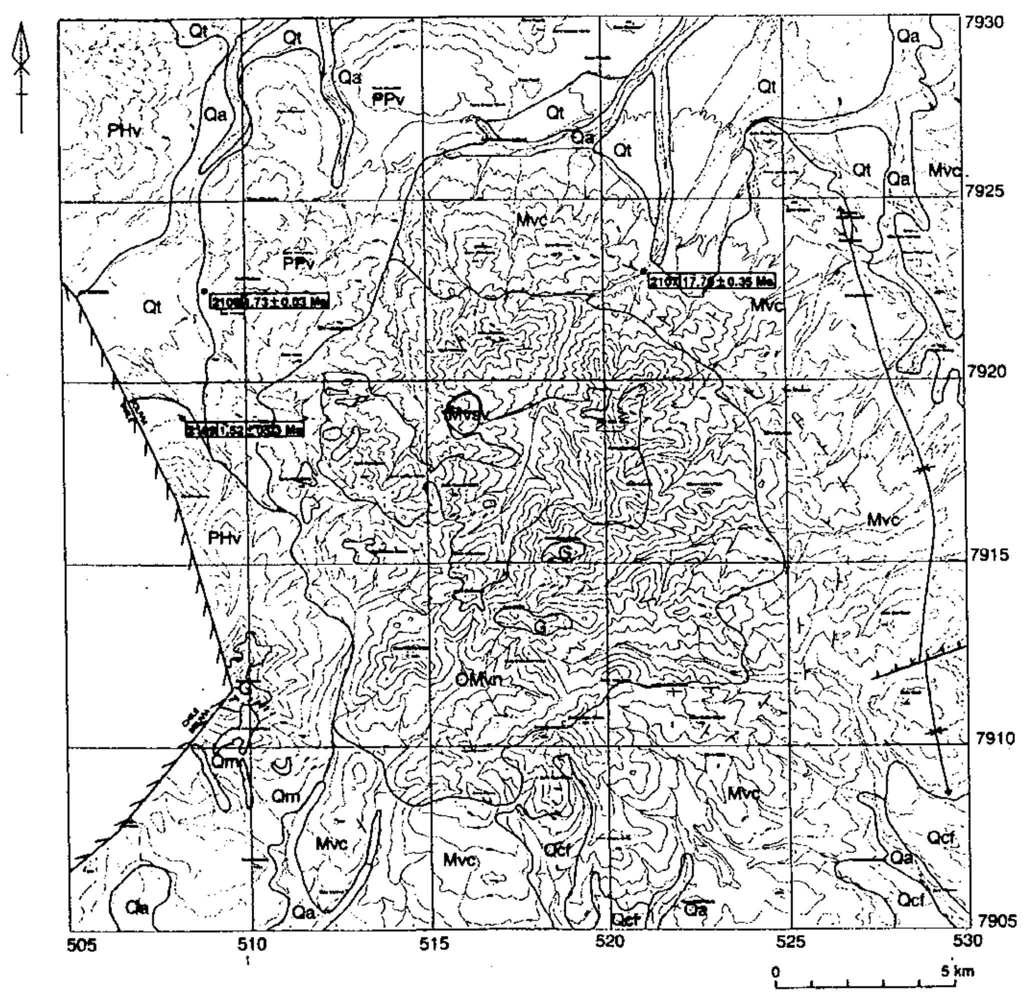
CHULLCANI DISTRICT



CALORNO DISTRICT



SONIA SUSANA DISTRICT



LOMA LLENA DISTRICT

THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA REPUBLIC OF BOLIVIA

Location Map Of Isotopic Dating Samples

1221 : 5.51±0.11Ma : Sample No.& Radiometric Age

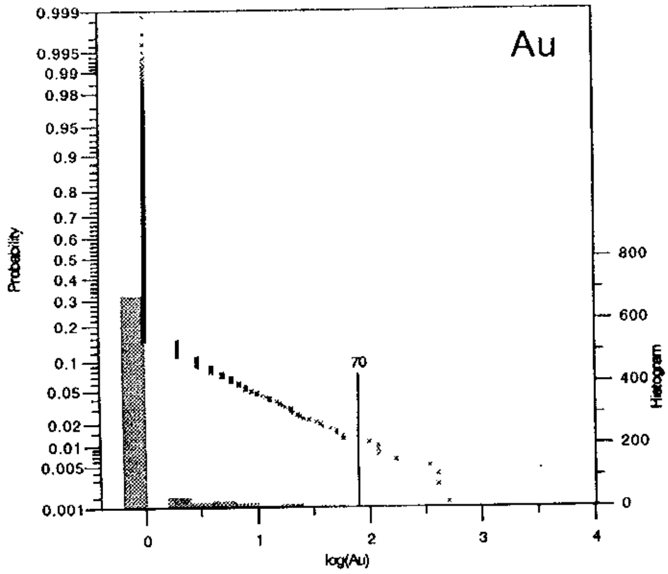
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH 2000

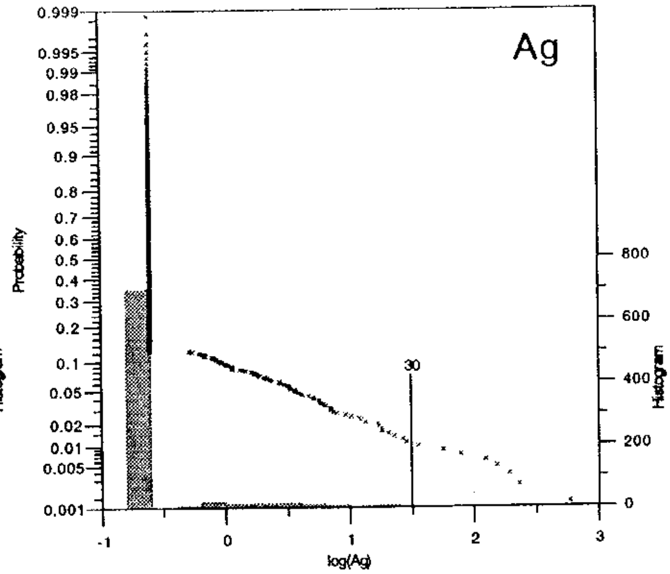
Appendix 9

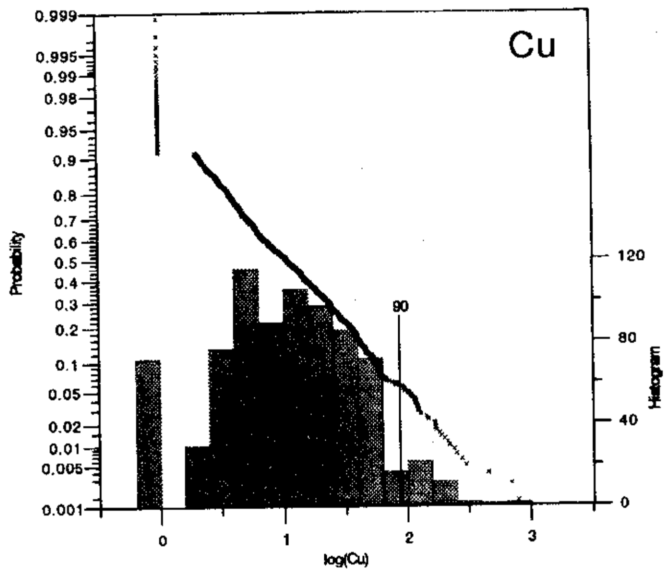
Assay Results of Rock Samples

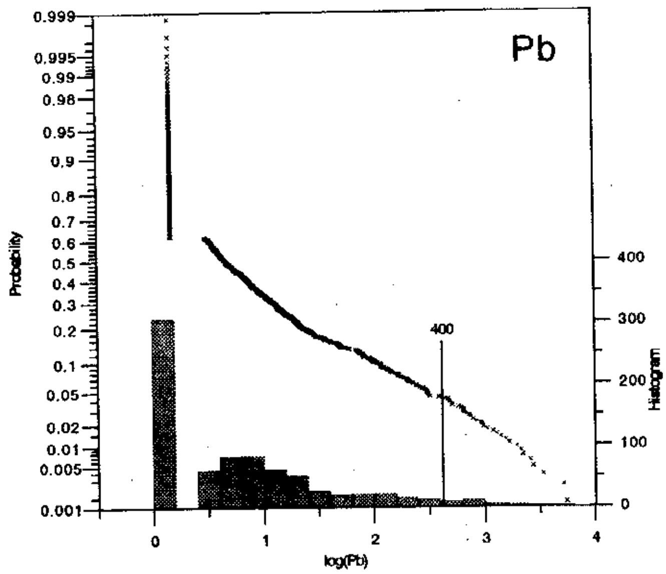
District Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
Turaquiri	min	<2	<0.5	<2	<3	16	<5	<5	<10	<1	40	<5
46	max	20	583	790	5,534	3,801	650	6	770	8	5,260	<5
	ave	<2	34	41	701	596	36	<5	178	2	1,064	<5
Asu Asuni	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	114	<5
27	max	3	1	51	28	433	39	<5	100	12	1,191	<5
	ave	<2	<0.5	12	5	31	<5	<5	27	2	300	<5
Chullcani	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	108	<5
28	max	408	4	124	2,569	75	373	10	860	58	3,165	<5
	ave	38	1	21	121	20	29	<5	143	6	715	<5
Sonia Susana	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	15	<5
194	max	504	57	700	1,672	4,660	3,210	93	22,230	238	2,690	44
	ave	12	2	43	121	141	40	3	170	7	272	<5
Calorno	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	11	<5
343	max	12	2	190	289	224	11,388	357	5,260	191	1,678	7
	ave	<2	<0.5	18	10	10	135	<5	154	5	288	<5
Loma Llena	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	12	<5
165	max	11	1	96	98	164	152	<5	5,750	86	1,494	16
	ave	<2	<0.5	18	6	18	12	<5	139	4	296	<5
Total	min	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	11	<5
803	max	504	583	790	5,534	4,660	11,388	357	22,230	238	5,260	44
	ave	5	3	25	80	78	73	3	152	5	346	<5
	thr	70	30	90	400	230	140	10	200	40	800	10

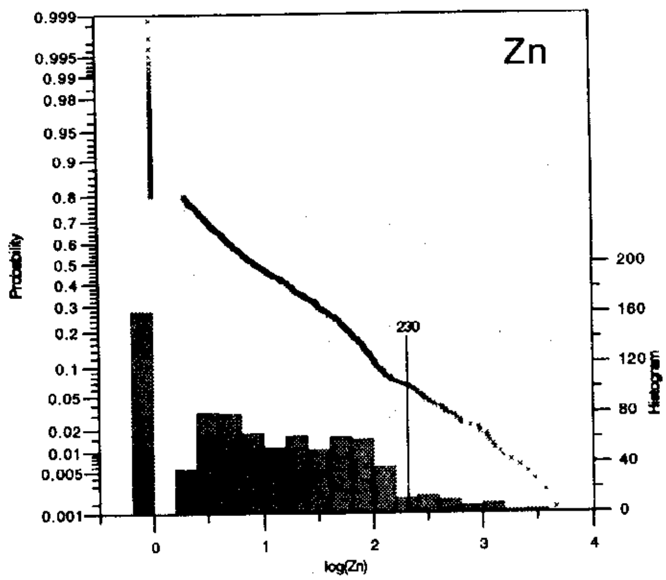
Appendix 9 Summary of the results of the Geochemical Analysis

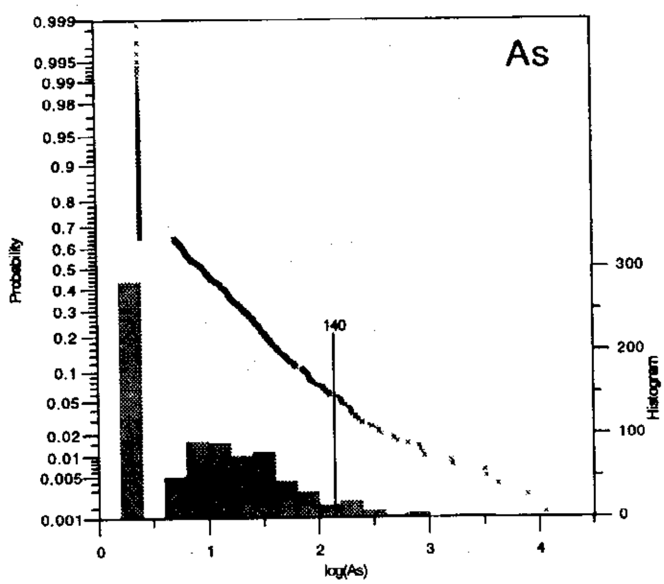

Au
Probability
Histogram
70
log(Au)

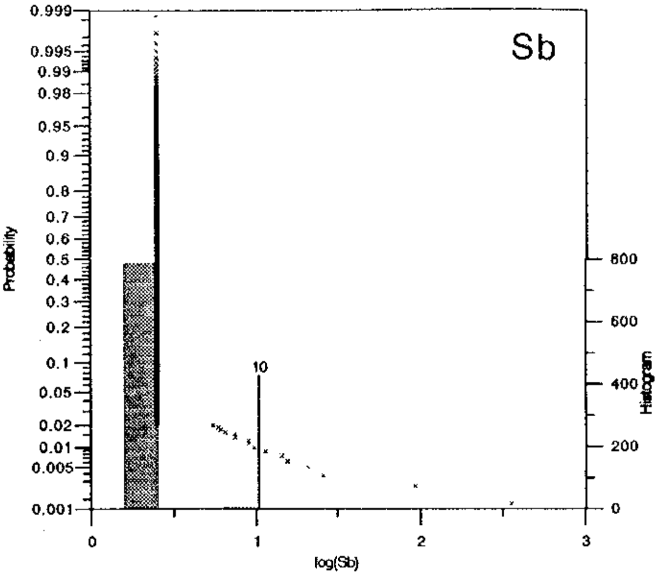

Ag
Probability
Histogram
30
log(Ag)

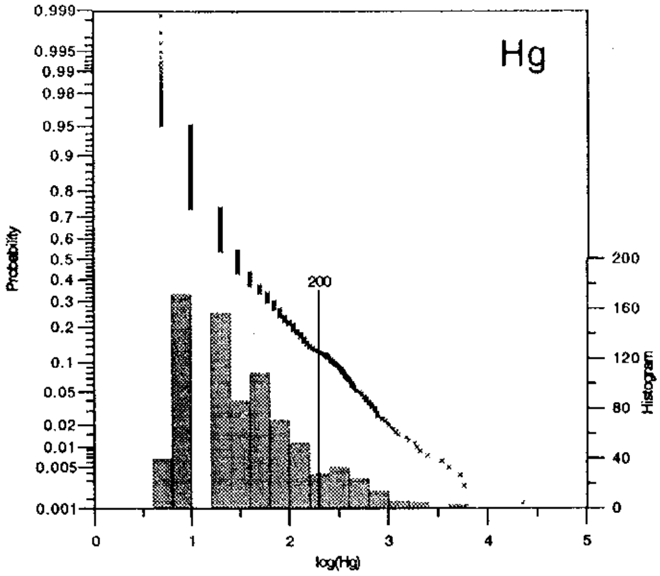

Cu
Probability
Histogram
90
log(Cu)

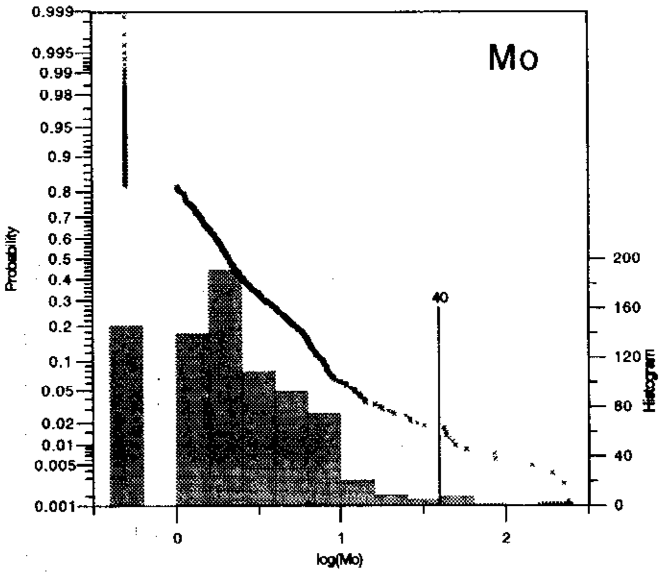

Pb
Probability
Histogram
400
log(Pb)

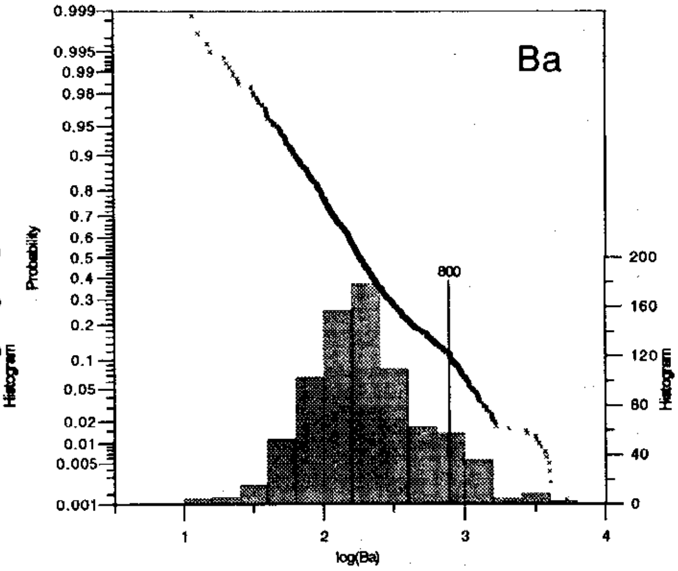

Zn
Probability
Histogram
230
log(Zn)

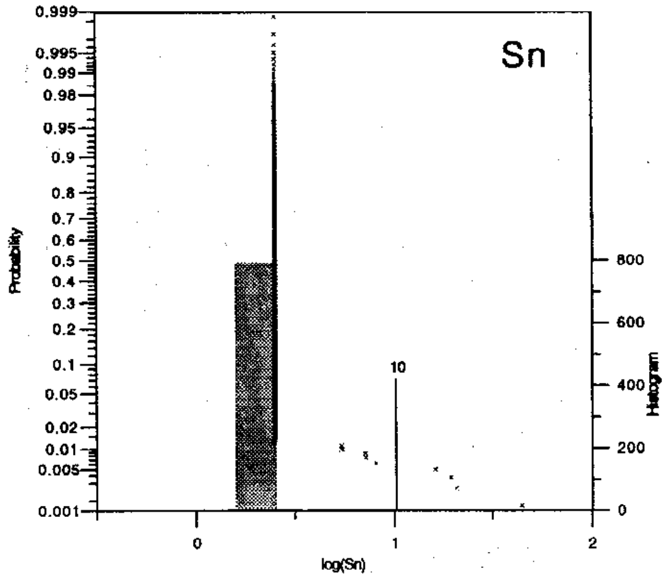

As
Probability
Histogram
140
log(As)


Sb
Probability
Histogram
log(Sb)
10
0.999
0.995
0.99
0.98
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.02
0.01
0.005
0.001
800
600
400
200
0
0
1
2
3


Hg
Probability
Histogram
log(Hg)
200
0.999
0.995
0.99
0.98
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.02
0.01
0.005
0.001
200
160
120
80
40
0
0
1
2
3
4
5


Mo
Probability
Histogram
log(Mo)
40
0.999
0.995
0.99
0.98
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.02
0.01
0.005
0.001
200
160
120
80
40
0
0
1
2


Ba
Probability
Histogram
log(Ba)
800
0.999
0.995
0.99
0.98
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.02
0.01
0.005
0.001
200
160
120
80
40
0
1
2
3
4


Sn
Probability
Histogram
log(Sn)
10
0.999
0.995
0.99
0.98
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.02
0.01
0.005
0.001
800
600
400
200
0
0
1
2

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
1	1001 IAR	<2	<0.5	3	<3	13	<5	<5	10	4	151	<5
2	1002 IAR	2	<0.5	39	9	6	13	<5	70	6	153	<5
3	1003 IAR	<2	<0.5	14	<3	48	<5	<5	40	<1	155	<5
4	1004 IAR	<2	<0.5	2	<3	8	<5	<5	10	2	1,070	<5
5	1005 IAR	<2	<0.5	4	<3	4	6	<5	40	2	1,027	<5
6	1006 IAR	<2	<0.5	28	<3	5	30	<5	40	2	192	<5
7	1007 IAR	<2	<0.5	8	31	5	26	<5	20	6	488	<5
8	1008 IAR	<2	<0.5	<2	<3	<2	<5	<5	70	2	57	<5
9	1009 IAR	<2	<0.5	<2	48	<2	<5	<5	10	3	1,437	<5
10	1010 IAR	<2	<0.5	4	<3	<2	9	<5	40	1	79	<5
11	1011 IAR	<2	<0.5	7	<3	3	8	<5	150	3	99	<5
12	1012 IAR	<2	<0.5	6	7	3	9	<5	10	14	257	<5
13	1013 IAR	3	<0.5	2	19	<2	19	<5	<10	7	155	<5
14	1014 IAR	2	<0.5	20	9	2	16	<5	350	6	122	<5
15	1015 IAR	<2	<0.5	3	7	3	10	<5	30	3	114	<5
16	1016 IAR	<2	<0.5	<2	9	<2	55	<5	10	<1	48	<5
17	1017 IAR	<2	<0.5	5	<3	2	20	<5	10	10	91	<5
18	1018 IAR	<2	<0.5	6	5	2	9	<5	10	2	40	<5
19	1019 IAR	<2	<0.5	4	13	2	31	<5	60	2	78	<5
20	1020 IAR	<2	<0.5	8	36	3	80	<5	150	3	80	<5
21	1021 IAR	<2	<0.5	12	<3	<2	17	<5	40	6	25	<5
22	1022 IAR	2	<0.5	23	<3	<2	21	<5	400	6	144	<5
23	1023 IAR	2	<0.5	10	10	<2	13	<5	4,040	6	172	<5
24	1024 IAR	<2	<0.5	3	<3	<2	<5	<5	50	9	245	<5
25	1025 IAR	<2	<0.5	10	<3	<2	<5	<5	410	8	996	<5
26	1026 IAR	12	<0.5	8	<3	<2	20	<5	70	25	541	<5
27	1027 IAR	<2	<0.5	6	<3	3	<5	<5	10	9	962	<5
28	1028 IAR	<2	<0.5	4	<3	2	<5	<5	20	4	1,548	<5
29	1029 IAR	<2	<0.5	3	<3	<2	<5	<5	30	8	865	<5
30	1030 IAR	<2	<0.5	14	8	<2	23	<5	2,060	9	261	<5
31	1031 IAR	<2	<0.5	<2	<3	<2	<5	<5	20	3	41	<5
32	1032 IAR	<2	<0.5	43	<3	<2	6	<5	<10	2	113	<5
33	1033 IAR	3	<0.5	7	<3	<2	10	<5	360	2	156	<5
34	1034 IAR	<2	<0.5	4	<3	<2	<5	<5	80	2	11	<5
35	1035 IAR	<2	<0.5	<2	<3	<2	<5	<5	<10	2	23	<5
36	1036 IAR	2	<0.5	12	5	2	<5	<5	150	5	439	<5
37	1037 IAR	<2	<0.5	2	<3	<2	<5	<5	80	2	281	<5
38	1038 IAR	<2	<0.5	36	5	2	18	<5	200	1	141	<5
39	1039 IAR	<2	<0.5	11	6	<2	<5	<5	100	2	210	<5
40	1040 IAR	<2	<0.5	31	4	3	20	<5	20	2	116	<5
41	1041 IAR	<2	<0.5	4	<3	<2	58	<5	60	3	40	<5
42	1044 IAR	4	2.2	302	116	259	6	<5	30	2	153	<5
43	1045 IAR	21	3.6	213	732	458	34	<5	70	5	1,005	<5
44	1046 IAR	6	1.5	453	648	1,263	10	<5	30	2	468	<5
45	1047 IAR	3	2.7	147	245	4,660	11	<5	20	<1	49	<5
46	1048 IAR	8	0.9	5	37	14	7	<5	30	3	366	<5
47	1049 IAR	29	5.6	128	755	556	60	<5	30	2	39	<5
48	1050 IAR	13	3.9	9	489	14	31	<5	40	5	159	<5
49	1051 IAR	<2	<0.5	3	13	8	5	<5	10	1	67	<5
50	1052 IAR	<2	<0.5	4	8	16	15	<5	210	4	23	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
51	1053 IAR	<2	<0.5	56	15	129	6	<5	20	3	56	<5
52	1054 IAR	<2	<0.5	3	4	6	<5	<5	20	2	34	<5
53	1055 IAR	<2	<0.5	60	9	100	<5	<5	10	2	55	<5
54	1056 IAR	<2	<0.5	2	<3	6	<5	<5	260	1	22	<5
55	1057 IAR	<2	<0.5	10	23	38	7	<5	10	2	176	<5
56	1058 IAR	<2	<0.5	2	25	7	18	<5	20	1	85	<5
57	1059 IAR	4	1.1	3	4	3	49	<5	22,230	2	152	<5
58	1060 IAR	<2	<0.5	<2	3	4	<5	<5	60	1	91	<5
59	1061 IAR	<2	<0.5	63	8	96	<5	<5	70	2	54	<5
60	1062 IAR	<2	<0.5	31	15	262	45	<5	40	2	238	<5
61	1063 IAR	10	0.6	37	16	7	6	<5	20	4	334	<5
62	1064 IAR	3	0.8	15	6	3	<5	<5	10	3	587	<5
63	1065 IAR	58	1.0	5	47	3	26	<5	20	5	51	<5
64	1066 IAR	8	0.8	<2	27	5	13	<5	20	17	110	<5
65	1067 IAR	4	<0.5	24	<3	50	25	<5	20	<1	16	<5
66	1068 IAR	9	2.1	3	109	4	35	<5	80	2	1,261	<5
67	1069 IAR	<2	<0.5	7	4	14	28	<5	30	4	673	<5
68	1070 IAR	<2	<0.5	5	40	3	<5	<5	860	2	826	<5
69	1071 IAR	<2	<0.5	10	5	7	13	<5	100	2	916	<5
70	1072 IAR	3	<0.5	124	29	73	180	<5	230	<1	553	<5
71	1073 IAR	<2	<0.5	3	14	<2	<5	<5	360	3	1,574	<5
72	1074 IAR	<2	<0.5	38	141	29	<5	<5	340	6	806	<5
73	1075 IAR	2	<0.5	2	4	3	23	<5	340	2	275	<5
74	1076 IAR	<2	<0.5	4	<3	<2	<5	<5	20	9	228	<5
75	1077 IAR	<2	<0.5	14	8	3	6	<5	20	4	398	<5
76	1078 IAR	408	3.6	4	<3	2	<5	<5	350	7	3,165	<5
77	1079 IAR	<2	<0.5	15	5	4	7	<5	150	<1	1,047	<5
78	1080 IAR	2	1.0	17	52	104	12	<5	30	3	183	<5
79	1081 IAR	<2	<0.5	6	49	28	<5	<5	370	2	487	<5
80	1082 IAR	<2	0.9	5	162	16	<5	<5	80	<1	200	<5
81	1083 IAR	<2	0.9	10	190	63	<5	<5	40	<1	780	<5
82	1084 IAR	<2	<0.5	19	4	40	<5	<5	210	<1	500	<5
83	1085 IAR	<2	3.2	59	313	643	<5	<5	60	<1	1,147	<5
84	1086 IAR	<2	28.5	46	1,194	402	6	<5	360	3	1,096	<5
85	1087 IAR	<2	20.7	52	5,172	133	6	<5	160	1	266	<5
86	1088 IAR	<2	4.0	7	188	89	<5	<5	140	<1	510	<5
87	1089 IAR	2	0.7	<2	307	68	<5	<5	10	<1	40	<5
88	1101 OAA	<2	<0.5	15	3	4	6	<5	1,180	1	162	<5
89	1102 OAA	<2	<0.5	2	<3	<2	<5	<5	10	<1	81	<5
90	1103 OAA	<2	<0.5	14	<3	9	6	<5	60	<1	130	<5
91	1104 OAA	<2	<0.5	2	11	3	<5	<5	20	<1	795	<5
92	1105 OAA	<2	<0.5	42	<3	54	<5	<5	10	3	58	<5
93	1106 OAA	<2	<0.5	9	<3	4	5	<5	90	1	187	<5
94	1107 OAA	<2	<0.5	10	<3	6	<5	<5	30	<1	165	<5
95	1108 OAA	<2	<0.5	15	<3	4	11	<5	90	3	244	<5
96	1109 OAA	<2	<0.5	94	8	17	6	<5	50	<1	215	<5
97	1110 OAA	<2	<0.5	<2	<3	<2	<5	<5	10	4	127	<5
98	1111 OAA	<2	<0.5	38	98	10	152	<5	40	86	314	<5
99	1112 OAA	<2	<0.5	22	<3	<2	10	<5	70	12	238	<5
100	1113 OAA	<2	<0.5	10	<3	2	28	<5	50	1	195	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
101	1114 OAA	<2	<0.5	6	<3	<2	<5	<5	20	8	954	<5
102	1115 OAA	<2	<0.5	53	<3	5	26	<5	50	4	342	<5
103	1116 OAA	<2	<0.5	21	<3	7	80	<5	40	7	70	<5
104	1117 OAA	6	<0.5	61	40	5	84	<5	540	7	163	<5
105	1118 OAA	<2	<0.5	57	<3	3	24	<5	130	<1	62	<5
106	1119 OAA	<2	<0.5	12	<3	<2	10	<5	20	4	50	<5
107	1120 OAA	<2	<0.5	3	21	<2	84	<5	40	7	25	<5
108	1121 OAA	<2	<0.5	3	25	<2	41	21	30	8	92	<5
109	1122 OAA	2	<0.5	6	30	<2	83	<5	210	5	103	<5
110	1123 OAA	<2	<0.5	21	<3	10	13	<5	30	6	170	<5
111	1124 OAA	4	<0.5	20	12	5	31	9	450	26	118	<5
112	1125 OAA	2	<0.5	5	5	<2	7	<5	440	5	177	<5
113	1126 OAA	<2	<0.5	3	<3	<2	6	<5	30	6	518	<5
114	1127 OAA	2	<0.5	14	17	3	111	<5	540	4	339	<5
115	1128 OAA	<2	<0.5	<2	5	<2	34	<5	20	3	161	<5
116	1129 OAA	<2	<0.5	5	93	4	165	<5	30	7	68	<5
117	1130 OAA	<2	<0.5	190	<3	11	<5	<5	20	2	34	<5
118	1131 OAA	<2	<0.5	6	5	6	16	<5	70	4	152	<5
119	1132 OAA	<2	<0.5	17	<3	6	86	<5	20	3	137	<5
120	1133 OAA	<2	<0.5	4	<3	<2	197	<5	180	7	64	<5
121	1134 OAA	<2	<0.5	82	<3	7	104	<5	5,260	12	92	<5
122	1135 OAA	<2	<0.5	29	17	25	124	<5	180	49	412	<5
123	1136 OAA	<2	<0.5	10	<3	<2	<5	<5	20	5	118	<5
124	1137 OAA	<2	<0.5	26	<3	8	41	<5	90	8	392	<5
125	1138 OAA	<2	<0.5	46	4	6	89	<5	70	7	100	<5
126	1139 OAA	<2	<0.5	53	<3	32	14	<5	130	2	214	<5
127	1140 OAA	<2	<0.5	39	<3	35	72	<5	20	25	236	<5
128	1141 OAA	<2	<0.5	71	<3	54	<5	<5	20	2	87	<5
129	1143 OAA	4	1.1	56	312	2,609	47	<5	30	7	175	<5
130	1144 OAA	172	56.6	700	393	293	197	<5	10	238	37	5
131	1145 OAA	34	7.1	172	789	303	38	<5	10	4	97	<5
132	1146 OAA	504	26.6	122	143	57	15	<5	50	6	178	19
133	1147 OAA	51	6.9	182	1,558	101	83	<5	50	45	61	8
134	1148 OAA	8	2.7	15	167	18	82	14	730	13	59	<5
135	1149 OAA	<2	<0.5	40	27	85	29	<5	150	3	62	<5
136	1150 OAA	<2	<0.5	12	25	105	20	<5	140	1	127	<5
137	1151 OAA	<2	<0.5	23	18	145	40	<5	100	1	103	<5
138	1152 OAA	<2	<0.5	68	29	46	30	<5	110	4	239	<5
139	1153 OAA	<2	<0.5	37	16	103	25	<5	30	1	122	<5
140	1154 OAA	<2	<0.5	130	3	118	<5	<5	20	2	87	<5
141	1155 OAA	<2	<0.5	17	11	83	<5	<5	990	2	223	<5
142	1156 OAA	<2	<0.5	29	7	53	75	<5	590	<1	135	<5
143	1157 OAA	<2	<0.5	18	15	51	26	<5	20	1	522	<5
144	1158 OAA	<2	<0.5	6	119	118	49	<5	390	1	2,050	<5
145	1159 OAA	<2	<0.5	<2	10	2	7	<5	20	2	1,054	<5
146	1160 OAA	7	<0.5	43	11	24	31	<5	20	3	93	<5
147	1161 OAA	5	<0.5	63	11	19	99	<5	60	29	792	<5
148	1162 OAA	6	0.9	15	119	53	14	<5	30	6	123	<5
149	1163 OAA	3	<0.5	38	169	103	21	<5	30	6	85	<5
150	1164 OAA	7	0.9	101	450	279	92	<5	40	13	50	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
151	1165	OAA	<2	<0.5	7	<3	15	<5	<5	20	<1	180	<5
152	1166	OAA	<2	<0.5	26	3	7	<5	<5	100	<1	380	<5
153	1167	OAA	<2	<0.5	14	<3	3	<5	<5	40	2	367	<5
154	1168	OAA	<2	<0.5	3	<3	3	<5	<5	20	7	297	<5
155	1169	OAA	<2	<0.5	51	28	13	39	<5	60	5	372	<5
156	1170	OAA	<2	<0.5	3	11	<2	<5	<5	20	12	201	<5
157	1171	OAA	<2	<0.5	28	<3	6	<5	<5	20	6	423	<5
158	1172	OAA	3	<0.5	29	21	59	<5	<5	30	5	218	<5
159	1173	OAA	<2	<0.5	41	<3	58	<5	<5	10	5	312	<5
160	1174	OAA	<2	<0.5	3	<3	4	<5	<5	20	2	711	<5
161	1175	OAA	<2	2.4	23	20	77	18	<5	30	3	60	<5
162	1176	OAA	<2	78.6	38	98	274	650	6	770	2	96	<5
163	1177	OAA	<2	2.0	34	204	1,554	<5	<5	60	<1	591	<5
164	1178	OAA	<2	1.1	13	494	368	<5	<5	140	1	351	<5
165	1179	OAA	<2	0.7	18	170	40	<5	<5	290	2	469	<5
166	1180	OAA	<2	35.4	790	5,534	254	<5	<5	340	<1	903	<5
167	1181	OAA	<2	5.2	46	103	120	6	<5	310	2	488	<5
168	1182	OAA	5	<0.5	6	84	73	6	<5	10	2	643	<5
169	1184	OAA	3	18.3	13	3,375	572	52	<5	130	1	4,008	<5
170	1185	OAA	2	123.6	29	1,958	518	24	<5	130	7	3,956	<5
171	1187	OAA	4	153.0	240	2,740	1,149	21	<5	740	7	5,260	<5
172	1201	YSS	<2	<0.5	<2	<3	<2	<5	<5	<10	2	199	<5
173	1202	YSS	<2	<0.5	4	<3	<2	11	<5	20	2	429	<5
174	1203	YSS	7	<0.5	24	93	105	34	<5	20	47	101	<5
175	1204	YSS	<2	<0.5	4	<3	<2	7	<5	10	4	105	<5
176	1205	YSS	11	<0.5	6	<3	<2	<5	<5	3,420	12	355	<5
177	1206	YSS	<2	<0.5	<2	<3	<2	<5	<5	10	2	51	<5
178	1207	YSS	<2	<0.5	5	<3	<2	5	<5	20	5	140	<5
179	1208	YSS	<2	<0.5	<2	<3	<2	<5	<5	10	1	100	<5
180	1209	YSS	<2	<0.5	2	<3	<2	<5	<5	30	2	90	<5
181	1210	YSS	<2	<0.5	<2	<3	<2	<5	<5	10	2	69	<5
182	1211	YSS	<2	<0.5	16	3	4	12	<5	30	1	212	<5
183	1212	YSS	<2	<0.5	4	<3	<2	<5	<5	40	3	801	<5
184	1213	YSS	<2	<0.5	2	<3	4	<5	<5	40	<1	1,369	<5
185	1214	YSS	<2	<0.5	<2	<3	<2	<5	<5	10	<1	794	<5
186	1215	YSS	<2	<0.5	<2	<3	2	<5	<5	20	<1	97	<5
187	1216	YSS	<2	<0.5	7	<3	2	6	<5	190	<1	96	<5
188	1217	YSS	<2	<0.5	15	<3	7	<5	<5	1,010	2	219	<5
189	1218	YSS	3	<0.5	11	<3	5	5	<5	440	1	225	<5
190	1219	YSS	<2	<0.5	7	<3	3	15	<5	10	2	111	<5
191	1220	YSS	3	<0.5	<2	81	<2	12	<5	130	5	88	16
192	1221	YSS	<2	<0.5	2	<3	<2	<5	<5	<10	6	55	<5
193	1222	YSS	<2	<0.5	<2	<3	<2	<5	<5	<10	2	146	<5
194	1223	YSS	<2	<0.5	<2	<3	2	<5	<5	30	3	106	<5
195	1224	YSS	<2	<0.5	19	<3	3	9	<5	40	2	240	<5
196	1225	YSS	<2	<0.5	6	4	3	9	<5	20	<1	157	<5
197	1226	YSS	<2	<0.5	3	<3	2	11	<5	140	<1	98	<5
198	1227	YSS	<2	<0.5	12	<3	6	16	<5	190	2	217	<5
199	1228	YSS	<2	<0.5	3	21	<2	6	<5	20	4	20	<5
200	1229	YSS	<2	<0.5	<2	<3	<2	<5	<5	10	1	39	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
201	1230 YSS	<2	<0.5	<2	<3	<2	8	<5	80	<1	72	<5
202	1231 YSS	<2	<0.5	6	<3	<2	6	<5	80	1	50	<5
203	1232 YSS	<2	<0.5	10	<3	<2	19	<5	680	2	53	<5
204	1233 YSS	3	<0.5	46	37	<2	164	7	570	7	218	<5
205	1234 YSS	<2	<0.5	12	5	<2	<5	<5	20	4	772	<5
206	1235 YSS	<2	<0.5	18	<3	<2	5	<5	160	6	907	<5
207	1236 YSS	<2	<0.5	4	13	<2	7	<5	70	1	208	<5
208	1237 YSS	<2	<0.5	3	8	<2	<5	<5	30	3	69	<5
209	1238 YSS	<2	<0.5	2	<3	<2	<5	<5	20	6	155	<5
210	1239 YSS	<2	<0.5	5	<3	2	<5	<5	60	3	709	<5
211	1240 YSS	<2	<0.5	5	<3	<2	<5	<5	30	5	789	<5
212	1241 YSS	<2	<0.5	3	<3	<2	<5	<5	10	18	960	<5
213	1242 YSS	3	<0.5	6	4	4	5	<5	130	11	709	<5
214	1243 YSS	<2	<0.5	<2	<3	<2	<5	<5	20	3	1,298	<5
215	1244 YSS	<2	<0.5	11	<3	6	22	<5	70	2	795	<5
216	1245 YSS	<2	<0.5	5	<3	7	<5	<5	70	5	1,336	<5
217	1246 YSS	<2	<0.5	3	<3	<2	10	<5	10	<1	98	<5
218	1247 YSS	<2	<0.5	32	<3	7	72	<5	10	16	1,075	<5
219	1248 YSS	<2	<0.5	8	<3	<2	11	<5	10	11	741	<5
220	1249 YSS	<2	<0.5	5	<3	<2	6	<5	20	<1	819	<5
221	1250 YSS	<2	<0.5	5	<3	<2	<5	<5	20	7	1,220	<5
222	1251 YSS	<2	<0.5	20	<3	<2	26	<5	430	2	80	<5
223	1252 YSS	2	<0.5	48	5	<2	38	11	2,450	5	924	<5
224	1253 YSS	<2	<0.5	27	<3	25	51	6	30	3	120	<5
225	1254 YSS	<2	<0.5	2	<3	<2	6	<5	30	2	62	<5
226	1255 YSS	<2	<0.5	13	<3	<2	10	<5	240	4	199	<5
227	1256 YSS	<2	<0.5	14	<3	<2	16	<5	460	2	140	<5
228	1257 YSS	<2	<0.5	22	4	5	44	<5	1,820	4	151	<5
229	1258 YSS	<2	<0.5	24	5	13	12	<5	60	3	148	<5
230	1259 YSS	<2	<0.5	21	<3	19	<5	<5	20	1	183	<5
231	1260 YSS	<2	<0.5	19	4	8	29	<5	10	5	195	<5
232	1261 YSS	<2	<0.5	19	<3	3	9	<5	200	1	256	<5
233	1262 YSS	<2	<0.5	8	8	<2	34	<5	10	2	40	<5
234	1263 YSS	<2	<0.5	53	<3	17	36	<5	80	3	156	<5
235	1264 YSS	<2	<0.5	12	<3	4	52	<5	110	4	312	<5
236	1265 YSS	13	1.1	123	953	82	50	<5	20	2	247	<5
237	1266 YSS	100	3.0	122	1,051	96	15	<5	80	7	104	7
238	1267 YSS	2	<0.5	13	20	214	49	<5	20	2	76	<5
239	1268 YSS	2	3.3	6	255	219	33	<5	30	3	106	<5
240	1269 YSS	13	18.5	33	99	62	9	<5	60	9	936	<5
241	1270 YSS	26	10.3	49	935	126	8	<5	30	4	128	<5
242	1271 YSS	2	6.4	35	306	76	7	<5	40	42	60	<5
243	1272 YSS	<2	<0.5	5	18	40	14	<5	20	<1	287	<5
244	1273 YSS	<2	<0.5	4	8	9	<5	<5	110	5	65	<5
245	1274 YSS	<2	<0.5	4	21	18	26	<5	20	2	1,170	<5
246	1275 YSS	20	3.3	20	16	33	81	<5	20	2	69	<5
247	1276 YSS	<2	<0.5	<2	9	15	<5	<5	20	1	31	<5
248	1277 YSS	16	6.2	5	22	51	15	<5	10	<1	40	<5
249	1278 YSS	<2	<0.5	7	17	39	<5	<5	<10	<1	50	<5
250	1279 YSS	<2	0.8	6	19	27	9	<5	240	2	668	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
251	1280	YSS	<2	<0.5	<2	4	245	<5	<5	40	1	1,574	<5
252	1281	YSS	<2	<0.5	3	28	33	6	<5	10	3	125	<5
253	1282	YSS	<2	<0.5	4	21	92	21	<5	10	1	348	<5
254	1283	YSS	<2	<0.5	13	24	72	34	<5	<10	8	228	<5
255	1284	YSS	<2	<0.5	111	486	20	17	<5	10	6	275	<5
256	1285	YSS	<2	<0.5	2	5	17	6	<5	10	2	108	<5
257	1286	YSS	<2	<0.5	2	52	25	<5	<5	20	2	97	<5
258	1287	YSS	<2	<0.5	19	10	26	<5	<5	50	2	191	<5
259	1288	YSS	<2	<0.5	11	22	23	<5	<5	80	2	102	<5
260	1289	YSS	<2	<0.5	<2	<3	5	<5	<5	<10	1	1,191	<5
261	1290	YSS	<2	0.6	<2	<3	44	<5	<5	<10	<1	201	<5
262	1291	YSS	<2	<0.5	<2	<3	<2	<5	<5	<10	<1	273	<5
263	1292	YSS	<2	<0.5	5	3	5	<5	<5	20	2	305	<5
264	1293	YSS	<2	<0.5	<2	<3	<2	<5	<5	50	1	198	<5
265	1294	YSS	<2	<0.5	5	<3	3	<5	<5	40	1	327	<5
266	1295	YSS	<2	<0.5	<2	<3	8	<5	<5	<10	1	154	<5
267	1296	YSS	<2	<0.5	4	4	<2	<5	<5	60	4	171	<5
268	1297	YSS	<2	<0.5	<2	<3	5	<5	<5	10	1	145	<5
269	1300	YSS	<2	17.1	10	2,193	926	23	<5	70	8	3,225	<5
270	1301	MML	<2	<0.5	5	4	6	<5	<5	20	5	539	<5
271	1302	MML	<2	<0.5	29	6	5	<5	<5	110	6	317	<5
272	1303	MML	<2	<0.5	3	6	15	<5	<5	10	5	777	<5
273	1304	MML	<2	<0.5	6	5	5	17	<5	10	2	116	<5
274	1305	MML	<2	<0.5	<2	<3	<2	<5	<5	20	2	12	<5
275	1306	MML	<2	<0.5	<2	<3	<2	<5	<5	10	3	276	<5
276	1307	MML	<2	<0.5	25	<3	65	<5	<5	20	<1	101	<5
277	1308	MML	<2	<0.5	<2	<3	<2	<5	<5	10	3	218	<5
278	1309	MML	2	<0.5	4	<3	2	6	<5	80	8	196	<5
279	1310	MML	<2	<0.5	4	<3	9	<5	<5	10	<1	790	<5
280	1311	MML	<2	<0.5	29	3	3	15	<5	670	1	190	<5
281	1312	MML	<2	<0.5	<2	<3	2	<5	<5	30	<1	914	<5
282	1313	MML	<2	<0.5	36	4	31	32	<5	10	21	214	<5
283	1314	MML	<2	<0.5	34	4	7	30	<5	160	5	423	<5
284	1315	MML	<2	<0.5	53	<3	29	<5	<5	70	<1	110	<5
285	1316	MML	<2	<0.5	15	8	3	11	<5	130	<1	178	<5
286	1317	MML	<2	<0.5	9	<3	<2	10	<5	240	<1	840	<5
287	1318	MML	<2	<0.5	5	6	2	13	<5	40	1	218	<5
288	1319	MML	<2	<0.5	5	<3	3	5	<5	130	1	963	<5
289	1320	MML	<2	<0.5	11	4	<2	19	<5	80	3	159	<5
290	1321	MML	<2	<0.5	4	4	<2	16	<5	230	1	69	<5
291	1322	MML	<2	<0.5	6	<3	<2	5	<5	120	6	575	<5
292	1323	MML	<2	<0.5	5	3	<2	95	<5	420	3	52	<5
293	1324	MML	<2	<0.5	46	3	30	37	<5	260	4	125	<5
294	1325	MML	<2	<0.5	<2	<3	<2	6	<5	90	8	93	<5
295	1326	MML	<2	<0.5	4	3	<2	43	<5	50	12	234	<5
296	1327	MML	<2	<0.5	6	13	<2	<5	<5	10	8	423	<5
297	1328	MML	<2	<0.5	5	14	<2	10	<5	50	5	456	<5
298	1329	MML	<2	<0.5	7	22	<2	23	<5	1,080	7	1,133	<5
299	1330	MML	<2	<0.5	3	<3	<2	<5	<5	30	4	435	<5
300	1331	MML	<2	<0.5	8	4	4	8	<5	70	2	219	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
301	1332 MML	<2	<0.5	2	8	<2	7	<5	630	2	98	<5
302	1333 MML	<2	<0.5	<2	<3	<2	<5	<5	50	1	657	<5
303	1334 MML	<2	<0.5	4	7	<2	<5	<5	60	5	543	5
304	1335 MML	<2	<0.5	6	<3	3	17	<5	730	7	286	<5
305	1336 MML	<2	<0.5	5	<3	<2	5	<5	30	6	100	<5
306	1337 MML	<2	<0.5	4	96	7	<5	<5	10	4	104	<5
307	1338 MML	3	<0.5	11	58	<2	30	<5	40	16	389	<5
308	1339 MML	<2	<0.5	11	<3	3	7	<5	110	3	99	<5
309	1340 MML	<2	<0.5	6	7	<2	17	<5	20	4	97	<5
310	1341 MML	<2	<0.5	14	<3	<2	12	<5	280	2	108	<5
311	1342 MML	<2	1.6	26	8	51	222	<5	100	3	162	<5
312	1343 MML	<2	<0.5	5	<3	<2	19	<5	90	4	32	<5
313	1344 MML	<2	<0.5	11	<3	<2	13	<5	380	3	114	<5
314	1345 MML	<2	<0.5	10	7	<2	10	<5	10	2	182	<5
315	1346 MML	<2	<0.5	7	6	<2	15	<5	30	1	93	<5
316	1347 MML	<2	<0.5	6	<3	<2	17	<5	100	2	43	<5
317	1348 MML	<2	<0.5	4	12	<2	6	<5	70	2	640	<5
318	1349 MML	<2	<0.5	6	12	<2	28	<5	20	13	149	<5
319	1350 MML	<2	<0.5	46	289	11	72	<5	40	191	212	<5
320	1351 MML	<2	<0.5	31	5	4	23	<5	80	2	269	<5
321	1352 MML	<2	<0.5	8	<3	<2	7	<5	90	5	537	<5
322	1353 MML	<2	<0.5	6	<3	2	27	<5	10	4	319	<5
323	1354 MML	<2	<0.5	22	10	<2	26	<5	870	11	169	<5
324	1355 MML	2	<0.5	11	5	<2	16	<5	30	3	160	<5
325	1356 MML	<2	<0.5	16	<3	14	<5	<5	130	2	367	<5
326	1357 MML	<2	<0.5	4	<3	4	8	<5	20	<1	174	<5
327	1358 MML	<2	<0.5	37	5	9	112	<5	600	6	180	<5
328	1359 MML	<2	<0.5	5	<3	3	26	<5	40	7	207	<5
329	1360 MML	<2	<0.5	9	3	4	31	<5	20	2	268	<5
330	1361 MML	<2	<0.5	22	<3	23	33	<5	10	<1	216	<5
331	1362 MML	<2	<0.5	35	<3	32	818	<5	40	1	154	<5
332	1363 MML	<2	<0.5	220	520	145	42	<5	10	2	162	<5
333	1364 MML	3	1.1	12	116	22	18	<5	10	2	108	<5
334	1365 MML	2	3.1	47	137	235	33	<5	20	4	113	<5
335	1366 MML	<2	<0.5	4	13	93	29	<5	20	8	78	<5
336	1367 MML	<2	<0.5	47	4	107	<5	<5	20	1	117	<5
337	1368 MML	<2	<0.5	61	5	66	<5	<5	10	3	62	<5
338	1369 MML	<2	<0.5	25	7	17	7	<5	10	1	501	<5
339	1370 MML	<2	<0.5	8	3	18	5	<5	<10	1	448	<5
340	1371 MML	<2	<0.5	8	8	112	<5	<5	30	<1	156	<5
341	1372 MML	<2	<0.5	2	9	15	<5	<5	10	1	1,380	<5
342	1373 MML	<2	<0.5	115	14	88	<5	<5	<10	<1	156	<5
343	1374 MML	<2	<0.5	2	3	32	<5	<5	30	<1	601	<5
344	1375 MML	<2	<0.5	4	9	84	<5	<5	30	<1	141	<5
345	1376 MML	<2	<0.5	3	<3	6	<5	<5	10	1	268	<5
346	1377 MML	<2	<0.5	24	75	115	<5	<5	20	5	65	<5
347	1378 MML	<2	0.7	63	<3	54	7	<5	10	1	372	<5
348	1379 MML	<2	<0.5	3	<3	19	<5	<5	<10	<1	201	<5
349	1380 MML	<2	<0.5	<2	<3	238	<5	<5	<10	<1	183	<5
350	1381 MML	<2	0.7	12	77	149	<5	<5	<10	145	43	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
351	1382	MML	<2	<0.5	4	12	29	<5	<5	20	3	566	<5
352	1383	MML	<2	<0.5	25	14	103	5	<5	120	1	314	<5
353	1384	MML	<2	<0.5	<2	6	50	<5	<5	30	1	152	<5
354	1385	MML	<2	<0.5	2	29	15	11	<5	30	<1	107	<5
355	1386	MML	<2	4.7	23	673	43	39	<5	530	9	259	<5
356	1387	MML	<2	<0.5	14	8	29	<5	<5	80	1	191	<5
357	1388	MML	<2	<0.5	14	<3	20	<5	<5	20	<1	260	<5
358	1389	MML	<2	<0.5	15	7	82	<5	<5	10	<1	191	<5
359	1390	MML	<2	<0.5	4	5	6	<5	<5	20	2	114	<5
360	1391	MML	<2	<0.5	<2	13	2	<5	<5	10	3	194	<5
361	1392	MML	<2	<0.5	16	<3	11	<5	<5	70	<1	242	<5
362	1393	MML	<2	<0.5	28	<3	24	<5	<5	10	<1	265	<5
363	1394	MML	<2	<0.5	4	3	4	<5	<5	40	<1	258	<5
364	1395	MML	<2	<0.5	24	<3	433	<5	<5	10	<1	152	<5
365	1397	MML	<2	4.2	4	213	1,097	51	<5	260	<1	4,046	<5
366	1401	FMS	<2	<0.5	3	<3	3	<5	<5	20	<1	133	<5
367	1402	FMS	<2	<0.5	13	<3	9	<5	<5	10	<1	180	<5
368	1403	FMS	<2	<0.5	23	<3	12	<5	<5	10	1	171	<5
369	1404	FMS	<2	<0.5	28	<3	57	<5	<5	10	<1	192	<5
370	1405	FMS	<2	<0.5	16	<3	10	<5	<5	20	1	205	<5
371	1406	FMS	<2	<0.5	27	<3	50	<5	<5	<10	2	55	<5
372	1407	FMS	<2	<0.5	12	<3	8	6	<5	30	1	123	<5
373	1408	FMS	<2	<0.5	20	<3	5	<5	<5	70	<1	95	<5
374	1409	FMS	4	<0.5	3	3	2	19	<5	60	2	135	<5
375	1410	FMS	<2	<0.5	45	5	3	26	<5	90	10	154	<5
376	1411	FMS	<2	<0.5	9	5	<2	7	<5	160	4	184	<5
377	1412	FMS	<2	<0.5	6	22	8	30	<5	10	<1	126	<5
378	1413	FMS	<2	<0.5	96	<3	9	38	<5	470	2	287	<5
379	1414	FMS	<2	<0.5	11	34	5	51	<5	<10	7	208	<5
380	1415	FMS	<2	<0.5	32	<3	6	9	<5	40	<1	105	<5
381	1416	FMS	<2	<0.5	15	<3	17	<5	<5	40	1	111	<5
382	1417	FMS	<2	<0.5	8	<3	<2	8	<5	20	2	693	<5
383	1418	FMS	<2	<0.5	5	<3	<2	16	<5	60	2	257	<5
384	1419	FMS	<2	<0.5	58	<3	18	<5	<5	20	1	936	<5
385	1420	FMS	<2	<0.5	22	3	2	41	<5	30	2	123	<5
386	1421	FMS	<2	<0.5	19	<3	3	57	<5	50	3	59	<5
387	1422	FMS	<2	<0.5	8	9	3	21	<5	100	5	158	<5
388	1423	FMS	<2	<0.5	4	<3	3	<5	<5	20	14	828	<5
389	1424	FMS	<2	<0.5	16	19	2	29	<5	130	19	321	<5
390	1425	FMS	<2	<0.5	103	28	3	23	<5	20	4	88	<5
391	1426	FMS	2	<0.5	18	12	<2	24	<5	30	5	125	<5
392	1427	FMS	<2	<0.5	7	76	<2	29	<5	40	3	104	<5
393	1428	FMS	2	<0.5	14	<3	13	127	<5	420	4	242	<5
394	1429	FMS	<2	<0.5	<2	4	<2	<5	<5	10	<1	268	<5
395	1430	FMS	<2	<0.5	7	<3	<2	25	<5	70	<1	64	<5
396	1431	FMS	4	<0.5	107	6	17	123	<5	30	8	178	<5
397	1432	FMS	2	<0.5	3	14	<2	7	<5	<10	2	407	<5
398	1433	FMS	<2	<0.5	30	<3	<2	9	<5	1,920	2	138	<5
399	1434	FMS	<2	<0.5	76	3	12	42	<5	40	8	71	<5
400	1435	FMS	<2	<0.5	18	5	3	15	<5	140	6	547	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
401	1436	FMS	<2	<0.5	35	6	9	74	<5	30	5	411	<5
402	1437	FMS	<2	<0.5	47	6	7	9	<5	20	3	322	<5
403	1438	FMS	<2	<0.5	36	<3	5	483	<5	10	3	169	<5
404	1439	FMS	<2	<0.5	8	<3	12	115	<5	40	2	90	<5
405	1440	FMS	<2	<0.5	9	124	9	30	<5	20	3	543	<5
406	1441	FMS	<2	<0.5	28	6	12	205	<5	20	3	848	<5
407	1442	FMS	<2	<0.5	16	13	5	14	<5	260	5	400	<5
408	1443	FMS	<2	<0.5	29	5	24	22	<5	80	1	191	<5
409	1444	FMS	<2	<0.5	21	4	11	113	<5	680	9	153	<5
410	1445	FMS	<2	<0.5	9	3	5	12	<5	110	4	131	<5
411	1446	FMS	<2	<0.5	4	7	7	129	<5	30	9	153	<5
412	1447	FMS	<2	<0.5	15	<3	14	1,647	<5	30	6	120	<5
413	1448	FMS	<2	<0.5	18	<3	11	<5	<5	10	<1	80	<5
414	1449	FMS	<2	<0.5	61	20	51	16	<5	90	3	322	<5
415	1450	FMS	<2	<0.5	6	4	3	24	<5	40	3	168	<5
416	1451	FMS	<2	<0.5	3	19	<2	<5	<5	10	2	159	<5
417	1452	FMS	<2	<0.5	11	11	19	16	<5	10	2	149	<5
418	1453	FMS	<2	<0.5	37	<3	67	6	<5	110	<1	736	<5
419	1454	FMS	<2	<0.5	11	<3	10	847	<5	640	4	67	<5
420	1455	FMS	<2	<0.5	25	<3	5	308	<5	60	43	268	<5
421	1456	FMS	15	3.3	250	857	143	90	<5	20	<1	164	<5
422	1457	FMS	37	1.8	169	511	96	174	<5	<10	43	297	<5
423	1458	FMS	6	2.8	80	1,284	126	18	<5	<10	3	261	<5
424	1459	FMS	38	1.0	119	624	64	20	<5	10	7	244	<5
425	1460	FMS	9	5.8	149	200	35	<5	<5	<10	1	98	<5
426	1461	FMS	59	7.9	278	233	98	37	<5	<10	3	102	<5
427	1462	FMS	20	<0.5	114	117	791	76	<5	30	21	92	<5
428	1463	FMS	<2	<0.5	<2	13	10	<5	<5	10	<1	244	<5
429	1464	FMS	<2	<0.5	2	18	52	11	<5	10	<1	365	<5
430	1465	FMS	<2	<0.5	<2	9	10	<5	<5	20	2	77	<5
431	1466	FMS	<2	<0.5	<2	10	14	<5	<5	60	<1	62	<5
432	1467	FMS	<2	<0.5	15	105	428	<5	<5	40	<1	15	<5
433	1468	FMS	<2	<0.5	3	12	26	<5	<5	10	<1	287	<5
434	1469	FMS	2	<0.5	<2	11	55	12	<5	30	<1	225	<5
435	1470	FMS	<2	<0.5	3	9	8	<5	<5	10	1	173	<5
436	1471	FMS	<2	<0.5	<2	11	11	7	<5	10	<1	135	<5
437	1472	FMS	<2	<0.5	34	15	22	8	<5	380	2	799	<5
438	1473	FMS	<2	0.6	8	22	52	<5	<5	20	1	364	<5
439	1474	FMS	<2	<0.5	8	8	75	<5	<5	10	2	157	<5
440	1475	FMS	<2	<0.5	13	<3	8	12	<5	40	6	237	<5
441	1476	FMS	<2	<0.5	16	13	19	<5	<5	10	2	168	<5
442	1477	FMS	344	3.7	25	2,569	21	373	10	110	9	949	<5
443	1478	FMS	121	<0.5	17	280	19	21	<5	60	9	2,760	<5
444	1479	FMS	<2	<0.5	59	5	9	19	<5	70	4	273	<5
445	1480	FMS	<2	<0.5	34	4	12	<5	<5	140	<1	297	<5
446	1481	FMS	<2	<0.5	15	5	10	9	<5	50	1	372	<5
447	1482	FMS	<2	<0.5	15	19	34	16	<5	140	2	108	<5
448	1483	FMS	<2	<0.5	9	9	46	<5	<5	10	1	91	<5
449	1484	FMS	<2	0.7	7	132	18	<5	<5	40	1	193	<5
450	1485	FMS	<2	<0.5	4	77	45	161	<5	420	<1	237	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
451	1487	FMS	<2	12.0	14	62	967	<5	<5	50	2	281	<5
452	1488	FMS	8	191.0	94	653	464	8	<5	50	8	3,787	<5
453	1491	FMS	20	229.0	24	1,393	1,463	88	<5	90	4	3,715	<5
454	1493	FMS	<2	7.1	6	82	3,801	<5	<5	20	1	3,349	<5
455	1494	FMS	<2	5.9	4	118	2,215	<5	<5	110	2	922	<5
456	1501	GQC	<2	<0.5	6	<3	9	<5	<5	<10	4	170	<5
457	1502	GQC	<2	<0.5	5	5	6	13	<5	110	6	104	<5
458	1503	GQC	<2	<0.5	6	4	6	37	<5	40	8	32	<5
459	1504	GQC	<2	<0.5	22	<3	15	<5	<5	60	<1	143	<5
460	1505	GQC	<2	<0.5	56	4	21	<5	<5	20	1	167	<5
461	1506	GQC	<2	<0.5	53	<3	12	15	<5	40	2	362	<5
462	1507	GQC	<2	<0.5	23	<3	7	9	<5	120	3	211	<5
463	1508	GQC	<2	<0.5	19	<3	19	8	<5	10	2	357	<5
464	1509	GQC	<2	<0.5	<2	8	<2	<5	<5	420	1	153	<5
465	1510	GQC	<2	<0.5	43	<3	5	56	<5	110	2	258	<5
466	1511	GQC	<2	<0.5	7	<3	6	9	<5	<10	<1	665	<5
467	1512	GQC	<2	<0.5	40	10	10	16	<5	1,250	1	448	<5
468	1513	GQC	<2	<0.5	6	7	<2	16	<5	20	6	448	<5
469	1514	GQC	<2	<0.5	<2	<3	2	<5	<5	10	<1	1,057	<5
470	1515	GQC	<2	<0.5	4	4	7	<5	<5	60	1	368	<5
471	1516	GQC	<2	<0.5	5	<3	<2	20	<5	20	2	303	<5
472	1517	GQC	<2	<0.5	11	8	5	13	<5	10	2	70	<5
473	1518	GQC	<2	<0.5	4	<3	<2	5	<5	10	3	31	<5
474	1519	GQC	<2	<0.5	<2	<3	<2	15	<5	<10	2	93	<5
475	1520	GQC	<2	<0.5	5	8	<2	<5	<5	30	1	612	<5
476	1521	GQC	<2	<0.5	3	8	<2	16	<5	140	2	34	<5
477	1522	GQC	<2	<0.5	<2	<3	<2	<5	<5	10	1	84	<5
478	1523	GQC	3	<0.5	7	<3	<2	6	<5	20	1	153	<5
479	1524	GQC	<2	<0.5	7	<3	2	<5	<5	50	7	797	<5
480	1525	GQC	<2	<0.5	68	16	<2	17	<5	140	3	79	<5
481	1526	GQC	<2	<0.5	3	<3	<2	<5	<5	10	4	1,030	<5
482	1527	GQC	<2	<0.5	<2	<3	<2	<5	<5	<10	4	721	<5
483	1528	GQC	<2	<0.5	<2	6	14	6	<5	10	3	295	<5
484	1529	GQC	<2	<0.5	3	<3	4	13	<5	20	<1	95	<5
485	1530	GQC	<2	<0.5	10	4	3	9	<5	160	2	167	<5
486	1531	GQC	<2	<0.5	60	<3	8	<5	<5	10	1	122	<5
487	1532	GQC	<2	<0.5	8	8	<2	10	<5	320	6	340	<5
488	1533	GQC	<2	<0.5	35	25	3	62	<5	130	13	902	<5
489	1534	GQC	<2	<0.5	2	7	<2	29	5	10	2	150	<5
490	1535	GQC	<2	<0.5	3	7	2	26	<5	10	2	222	<5
491	1536	GQC	<2	<0.5	8	<3	4	333	<5	10	6	176	<5
492	1537	GQC	<2	<0.5	28	8	7	34	6	1,590	14	263	<5
493	1538	GQC	<2	<0.5	42	<3	20	<5	<5	20	1	379	<5
494	1539	GQC	<2	<0.5	39	<3	6	15	<5	30	9	108	<5
495	1540	GQC	<2	<0.5	20	4	24	10	<5	10	3	352	<5
496	1541	GQC	8	5.1	12	324	60	15	<5	10	2	39	<5
497	1542	GQC	16	1.7	117	210	201	76	<5	10	<1	302	<5
498	1543	GQC	24	1.9	167	83	181	129	<5	10	8	212	<5
499	1544	GQC	45	1.8	121	54	131	81	<5	10	4	105	<5
500	1545	GQC	6	<0.5	117	179	310	48	<5	10	3	45	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
501	1546	GQC	18	1.2	201	120	629	54	<5	10	2	80	<5
502	1547	GQC	<2	<0.5	60	8	24	<5	<5	10	<1	69	<5
503	1548	GQC	<2	<0.5	4	14	32	<5	<5	10	<1	343	<5
504	1549	GQC	2	0.9	3	30	6	6	<5	180	<1	112	<5
505	1550	GQC	<2	<0.5	2	<3	302	8	<5	110	1	624	<5
506	1551	GQC	<2	<0.5	11	<3	1,189	<5	<5	60	<1	541	<5
507	1552	GQC	<2	<0.5	<2	7	136	9	<5	20	1	850	<5
508	1553	GQC	2	<0.5	4	7	100	<5	<5	10	2	156	<5
509	1554	GQC	<2	<0.5	5	<3	188	8	<5	10	<1	178	<5
510	1555	GQC	<2	<0.5	10	4	94	<5	<5	10	<1	104	<5
511	1556	GQC	<2	<0.5	11	15	170	<5	<5	10	<1	77	<5
512	1557	GQC	5	1.9	60	158	65	6	<5	10	<1	123	<5
513	1558	GQC	10	0.9	<2	14	5	9	<5	20	2	98	<5
514	1559	GQC	2	1.6	5	82	6	<5	<5	570	<1	111	<5
515	1560	GQC	2	<0.5	79	<3	132	7	<5	20	<1	95	<5
516	1561	GQC	2	<0.5	41	<3	118	17	<5	20	<1	93	<5
517	1562	GQC	<2	<0.5	28	4	20	<5	<5	30	<1	124	<5
518	1563	GQC	<2	<0.5	<2	7	11	<5	<5	20	3	116	<5
519	1564	GQC	<2	<0.5	<2	42	23	<5	<5	10	1	436	<5
520	1565	GQC	120	<0.5	69	16	60	8	<5	20	58	407	<5
521	1566	GQC	51	1.4	21	124	11	60	<5	70	26	1,642	<5
522	1567	GQC	<2	<0.5	<2	4	3	<5	<5	10	10	358	<5
523	1568	GQC	<2	<0.5	11	9	71	<5	<5	20	3	54	<5
524	1569	GQC	<2	<0.5	16	14	84	<5	<5	30	<1	91	<5
525	1570	GQC	<2	<0.5	8	9	45	<5	<5	480	2	520	<5
526	1571	GQC	<2	<0.5	5	31	55	<5	<5	170	<1	173	<5
527	1572	GQC	<2	<0.5	15	12	85	<5	<5	20	<1	452	<5
528	1573	GQC	<2	<0.5	13	4	75	<5	<5	10	<1	422	<5
529	1574	GQC	<2	<0.5	9	<3	68	<5	<5	10	<1	151	<5
530	1575	GQC	<2	<0.5	7	4	63	<5	<5	60	<1	183	<5
531	1576	GQC	<2	583.0	14	650	331	6	<5	510	8	3,481	<5
532	1578	GQC	3	17.5	90	975	951	289	<5	110	7	99	<5
533	1601	TI	<2	<0.5	9	7	31	<5	<5	10	2	136	<5
534	1602	TI	<2	<0.5	27	5	106	10	<5	20	1	125	<5
535	1603	TI	<2	<0.5	13	10	64	6	<5	10	<1	360	<5
536	1604	TI	<2	<0.5	6	4	35	10	<5	30	3	137	<5
537	1605	TI	<2	<0.5	<2	5	16	15	<5	10	2	352	<5
538	1606	TI	2	<0.5	2	13	40	35	<5	20	2	53	<5
539	1607	TI	<2	<0.5	41	14	157	<5	<5	20	<1	113	<5
540	1608	TI	<2	<0.5	3	21	66	6	<5	40	2	70	<5
541	1610	TI	<2	<0.5	115	8	97	<5	<5	40	2	1,266	<5
542	1612	TI	<2	<0.5	24	148	50	<5	<5	60	2	2,690	<5
543	1613	TI	<2	<0.5	2	50	35	<5	<5	20	1	548	<5
544	1614	TI	<2	<0.5	<2	20	341	<5	<5	20	2	170	<5
545	1615	TI	<2	<0.5	<2	12	19	<5	<5	10	<1	173	<5
546	1616	TI	<2	<0.5	6	49	21	13	<5	30	2	241	<5
547	1617	TI	<2	0.8	8	16	38	20	<5	30	<1	150	<5
548	1618	TI	<2	<0.5	5	23	48	27	<5	40	1	104	<5
549	1619	TI	<2	<0.5	15	23	467	<5	<5	30	<1	231	<5
550	1620	TI	<2	<0.5	7	32	122	7	<5	30	<1	99	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
551	1621	TI	<2	1.1	8	16	48	13	<5	20	2	35	<5
552	1622	TI	5	0.6	6	14	17	6	<5	20	13	419	<5
553	1701	MH	<2	<0.5	17	<3	40	<5	<5	10	1	80	<5
554	1702	MH	<2	<0.5	5	<3	<2	7	<5	10	<1	1,119	<5
555	1703	MH	<2	<0.5	6	<3	3	6	<5	20	6	552	<5
556	1704	MH	<2	<0.5	4	<3	<2	7	<5	10	1	663	<5
557	1705	MH	<2	<0.5	7	5	4	11	<5	20	2	304	<5
558	1706	MH	<2	<0.5	17	<3	32	6	<5	10	3	200	<5
559	1707	MH	<2	<0.5	5	<3	3	5	<5	50	4	322	<5
560	1708	MH	<2	<0.5	24	<3	67	<5	<5	10	3	109	<5
561	1709	MH	<2	<0.5	9	3	7	24	<5	290	8	175	<5
562	1710	MH	<2	<0.5	5	<3	<2	10	<5	1,110	1	599	<5
563	1711	MH	<2	<0.5	7	<3	<2	11	<5	20	6	336	<5
564	1712	MH	<2	<0.5	4	<3	3	10	<5	10	3	805	<5
565	1713	MH	<2	<0.5	5	3	4	7	<5	10	3	411	<5
566	1714	MH	<2	<0.5	11	16	18	91	<5	10	5	386	<5
567	1715	MH	<2	<0.5	13	5	5	74	<5	5,750	7	117	<5
568	1716	MH	<2	<0.5	5	<3	3	16	<5	40	4	185	<5
569	1717	MH	<2	<0.5	4	<3	<2	13	<5	20	4	863	<5
570	1718	MH	<2	<0.5	5	<3	2	<5	<5	10	3	618	<5
571	1719	MH	<2	<0.5	61	6	7	82	<5	20	1	110	<5
572	1720	MH	<2	<0.5	19	10	8	42	<5	150	2	226	<5
573	1721	MH	<2	<0.5	29	9	7	63	<5	20	5	193	<5
574	1722	MH	<2	<0.5	5	4	164	14	<5	280	4	729	<5
575	1723	MH	<2	<0.5	39	6	2	37	<5	80	6	1,250	<5
576	1724	MH	<2	<0.5	56	4	58	25	<5	20	2	168	<5
577	1725	MH	2	<0.5	39	7	13	36	<5	30	42	147	<5
578	1726	MH	<2	<0.5	39	29	32	43	<5	50	3	236	<5
579	1727	MH	<2	<0.5	66	<3	112	<5	<5	40	2	83	<5
580	1728	MH	<2	<0.5	24	<3	23	6	<5	10	2	245	<5
581	1729	MH	<2	<0.5	42	5	69	13	<5	30	9	185	<5
582	1730	MH	<2	<0.5	21	<3	21	36	<5	80	5	56	<5
583	1731	MH	<2	<0.5	40	6	7	33	<5	60	3	229	<5
584	1732	MH	<2	<0.5	24	<3	4	12	<5	60	1	141	<5
585	1733	MH	<2	<0.5	9	9	3	38	<5	70	2	193	<5
586	1734	MH	<2	<0.5	23	4	17	26	<5	110	2	276	<5
587	1735	MH	<2	<0.5	6	5	3	6	<5	60	<1	340	<5
588	1736	MH	<2	<0.5	32	6	9	13	<5	10	2	164	<5
589	1737	MH	<2	<0.5	23	3	9	<5	<5	20	<1	310	<5
590	1738	MH	<2	<0.5	38	<3	44	<5	<5	20	<1	271	<5
591	1739	MH	2	<0.5	26	4	5	19	<5	120	2	433	<5
592	1740	MH	<2	<0.5	<2	4	<2	<5	<5	1,510	2	186	<5
593	1741	MH	<2	<0.5	5	<3	<2	5	<5	60	2	84	<5
594	1742	MH	<2	<0.5	3	<3	3	<5	<5	40	6	970	<5
595	1743	MH	<2	<0.5	20	4	12	17	<5	60	1	175	<5
596	1744	MH	<2	<0.5	4	5	<2	11	<5	90	<1	55	<5
597	1745	MH	<2	<0.5	25	6	9	29	<5	20	3	123	<5
598	1746	MH	<2	<0.5	27	37	15	118	<5	20	32	571	<5
599	1747	MH	<2	<0.5	25	20	2	52	<5	10	18	243	<5
600	1748	MH	<2	<0.5	8	11	6	13	<5	20	3	312	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
601	1749	MH	<2	<0.5	4	<3	<2	<5	<5	70	11	64	<5
602	1750	MH	<2	<0.5	9	<3	2	<5	<5	10	2	1,088	<5
603	1751	MH	<2	<0.5	19	7	2	14	<5	330	<1	221	<5
604	1752	MH	<2	<0.5	19	3	3	22	<5	60	1	165	<5
605	1753	MH	<2	<0.5	8	<3	<2	9	<5	220	1	209	<5
606	1754	MH	<2	<0.5	19	7	2	10	<5	30	2	131	<5
607	1755	MH	5	<0.5	9	5	<2	18	<5	10	2	209	<5
608	1756	MH	<2	<0.5	5	19	<2	15	<5	30	14	190	<5
609	1757	MH	<2	<0.5	15	<3	<2	20	<5	320	8	1,261	<5
610	1758	MH	<2	<0.5	7	70	<2	23	<5	30	11	51	<5
611	1759	MH	<2	<0.5	3	<3	<2	<5	<5	240	5	700	<5
612	1760	MH	<2	<0.5	4	<3	<2	<5	<5	20	6	883	<5
613	1761	MH	<2	<0.5	9	<3	<2	30	<5	270	8	85	<5
614	1762	MH	<2	<0.5	<2	4	<2	<5	<5	20	1	684	<5
615	1763	MH	<2	<0.5	10	<3	3	6	<5	370	8	1,000	<5
616	1764	MH	<2	<0.5	<2	<3	<2	<5	<5	20	3	1,438	<5
617	1765	MH	<2	<0.5	29	11	5	81	<5	50	3	108	<5
618	1766	MH	<2	<0.5	43	6	4	80	<5	310	3	169	<5
619	1767	MH	<2	<0.5	43	<3	4	27	<5	920	3	199	<5
620	1768	MH	<2	<0.5	22	<3	2	10	<5	70	2	58	<5
621	1769	MH	<2	<0.5	38	4	6	<5	<5	120	3	213	<5
622	1770	MH	<2	<0.5	7	<3	6	42	<5	160	2	118	<5
623	1771	MH	<2	<0.5	20	5	5	43	<5	110	1	46	<5
624	1772	MH	<2	<0.5	14	4	4	15	<5	90	1	41	<5
625	1773	MH	<2	<0.5	7	14	9	1,600	16	30	1	1,678	7
626	1774	MH	<2	<0.5	9	15	3	32	<5	<10	1	209	<5
627	1775	MH	<2	<0.5	96	3	3	20	<5	80	2	13	<5
628	1776	MH	<2	<0.5	11	10	<2	14	<5	20	<1	37	<5
629	1777	MH	<2	<0.5	15	21	53	7,810	357	120	5	298	<5
630	1778	MH	<2	<0.5	6	<3	<2	27	<5	40	2	96	<5
631	1779	MH	<2	<0.5	29	7	6	<5	<5	30	2	125	<5
632	1780	MH	<2	<0.5	8	9	5	22	<5	50	3	291	<5
633	1781	MH	<2	<0.5	54	6	18	43	<5	20	5	339	<5
634	1782	MH	2	<0.5	167	<3	42	9	<5	50	2	240	<5
635	1783	MH	<2	<0.5	44	4	19	112	<5	20	1	135	<5
636	1784	MH	<2	<0.5	108	18	63	11,388	<5	30	8	59	<5
637	1785	MH	<2	<0.5	27	<3	17	29	<5	80	2	745	<5
638	1786	MH	<2	<0.5	14	5	12	32	<5	600	2	198	<5
639	1787	MH	<2	<0.5	33	<3	36	4,220	<5	80	1	189	<5
640	1788	MH	<2	<0.5	19	<3	11	3,303	<5	80	5	48	<5
641	1801	KN	<2	<0.5	27	<3	56	<5	<5	<10	2	104	<5
642	1802	KN	<2	<0.5	40	<3	74	<5	<5	30	1	117	<5
643	1803	KN	<2	<0.5	36	<3	56	<5	<5	30	<1	62	<5
644	1804	KN	<2	<0.5	33	<3	80	<5	<5	<10	1	114	<5
645	1805	KN	<2	<0.5	50	<3	74	<5	<5	<10	1	83	<5
646	1806	KN	<2	<0.5	25	<3	89	<5	<5	20	2	117	<5
647	1807	KN	<2	<0.5	25	<3	85	<5	<5	10	2	84	<5
648	1808	KN	<2	<0.5	23	<3	109	<5	<5	10	2	167	<5
649	1809	KN	<2	<0.5	6	<3	4	<5	<5	10	7	110	<5
650	1810	KN	<2	<0.5	2	<3	5	<5	<5	20	3	174	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
651	1811	KN	<2	<0.5	4	<3	3	<5	<5	20	4	107	<5
652	1812	KN	<2	<0.5	3	<3	4	<5	<5	10	2	32	<5
653	1813	KN	<2	<0.5	4	<3	3	<5	<5	10	3	285	<5
654	1814	KN	<2	<0.5	24	<3	37	<5	<5	20	1	83	<5
655	1815	KN	<2	<0.5	19	<3	40	<5	<5	10	2	55	<5
656	1816	KN	<2	<0.5	24	<3	50	<5	<5	10	3	78	<5
657	1817	KN	<2	<0.5	35	<3	50	<5	<5	10	2	82	<5
658	1818	KN	<2	<0.5	28	3	96	<5	<5	10	2	107	<5
659	1819	KN	<2	<0.5	39	<3	81	<5	<5	10	2	143	<5
660	1820	KN	<2	<0.5	23	<3	61	<5	<5	10	1	144	<5
661	1821	KN	<2	<0.5	45	<3	46	<5	<5	10	<1	73	<5
662	1822	KN	<2	<0.5	21	<3	6	8	<5	10	<1	308	<5
663	1823	KN	<2	<0.5	8	<3	6	16	<5	140	7	186	<5
664	1824	KN	<2	<0.5	18	<3	11	7	<5	10	7	166	<5
665	1825	KN	<2	<0.5	42	<3	38	14	<5	20	3	264	<5
666	1826	KN	<2	<0.5	24	<3	16	45	<5	20	3	77	<5
667	1827	KN	<2	<0.5	17	6	2	38	<5	10	2	191	<5
668	1828	KN	<2	0.5	6	5	3	7	<5	10	6	238	<5
669	1829	KN	<2	<0.5	36	<3	15	22	<5	20	2	367	<5
670	1830	KN	<2	<0.5	60	<3	90	<5	<5	10	2	140	<5
671	1831	KN	<2	<0.5	52	<3	60	<5	<5	20	2	145	<5
672	1832	KN	<2	<0.5	<2	<3	3	<5	<5	20	<1	1,233	<5
673	1833	KN	<2	<0.5	6	<3	<2	<5	<5	20	5	1,231	<5
674	1834	KN	<2	<0.5	3	<3	3	7	<5	50	1	1,494	<5
675	1835	KN	<2	<0.5	6	8	5	10	<5	20	2	473	<5
676	1836	KN	<2	<0.5	39	<3	46	6	<5	20	<1	128	<5
677	1837	KN	3	<0.5	6	5	3	<5	<5	110	6	238	<5
678	1838	KN	<2	<0.5	4	4	<2	<5	<5	780	1	213	<5
679	1839	KN	<2	<0.5	7	8	8	11	<5	90	2	363	<5
680	1840	KN	<2	<0.5	<2	3	3	10	<5	10	2	97	<5
681	1841	KN	<2	<0.5	56	<3	39	<5	<5	10	1	159	<5
682	1842	KN	<2	<0.5	60	<3	224	<5	<5	10	3	130	<5
683	1843	KN	<2	<0.5	3	22	4	11	<5	40	2	312	<5
684	1844	KN	<2	<0.5	5	5	5	6	<5	40	2	157	<5
685	1845	KN	<2	<0.5	4	5	4	6	<5	50	<1	317	<5
686	1846	KN	<2	<0.5	13	6	5	9	<5	30	2	309	<5
687	1847	KN	<2	<0.5	34	<3	27	<5	<5	10	1	204	<5
688	1848	KN	<2	<0.5	8	4	6	25	<5	10	2	386	<5
689	1849	KN	<2	<0.5	2	11	<2	<5	<5	10	2	355	<5
690	1850	KN	<2	<0.5	21	14	10	15	<5	40	2	414	<5
691	1851	KN	<2	<0.5	3	8	4	17	<5	10	2	272	<5
692	1852	KN	<2	<0.5	33	3	19	28	<5	50	2	235	<5
693	1853	KN	<2	<0.5	<2	<3	3	<5	<5	10	2	160	<5
694	1854	KN	<2	<0.5	7	3	3	10	<5	60	2	134	<5
695	1855	KN	<2	<0.5	3	7	<2	44	<5	40	3	219	<5
696	1856	KN	<2	<0.5	2	<3	<2	6	<5	50	1	112	<5
697	1857	KN	<2	<0.5	8	4	<2	10	<5	10	6	66	<5
698	1858	KN	<2	<0.5	5	<3	2	<5	<5	30	6	162	<5
699	1859	KN	<2	<0.5	53	<3	50	<5	<5	20	2	138	<5
700	1860	KN	<2	<0.5	17	4	11	33	<5	90	2	265	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
701	1861	KN	<2	<0.5	57	<3	82	<5	<5	10	3	180	<5
702	1862	KN	<2	<0.5	81	<3	10	<5	<5	50	<1	270	<5
703	1863	KN	<2	<0.5	53	<3	46	<5	<5	20	2	149	<5
704	1864	KN	<2	<0.5	46	<3	40	<5	<5	80	1	150	<5
705	1865	KN	<2	<0.5	5	7	11	72	<5	330	3	168	<5
706	1866	KN	<2	<0.5	11	<3	4	20	<5	30	7	223	<5
707	1867	KN	<2	<0.5	4	265	4	873	<5	30	1	82	<5
708	1868	KN	<2	<0.5	14	3	6	48	<5	10	2	231	<5
709	1869	KN	<2	<0.5	6	60	9	219	<5	20	1	77	<5
710	1870	KN	<2	<0.5	4	<3	5	36	<5	20	2	591	<5
711	1871	KN	<2	<0.5	46	<3	31	<5	<5	20	<1	417	<5
712	1872	KN	<2	<0.5	24	<3	30	<5	<5	10	<1	172	<5
713	1873	KN	<2	<0.5	3	4	7	11	<5	10	2	240	<5
714	1874	KN	<2	<0.5	7	<3	<2	10	<5	90	2	102	<5
715	1875	KN	<2	<0.5	8	10	5	5	<5	20	8	581	<5
716	1876	KN	<2	<0.5	6	<3	5	<5	<5	80	6	223	<5
717	1877	KN	<2	<0.5	14	<3	6	17	<5	20	1	333	<5
718	1878	KN	<2	<0.5	2	4	4	33	<5	20	2	212	<5
719	1879	KN	<2	<0.5	2	<3	2	15	<5	30	1	87	<5
720	1880	KN	<2	<0.5	4	<3	4	30	<5	30	<1	139	<5
721	1881	KN	<2	<0.5	4	7	8	46	<5	20	2	66	<5
722	1882	KN	<2	<0.5	13	9	9	25	<5	150	2	256	<5
723	1883	KN	<2	<0.5	8	6	5	21	<5	120	3	83	<5
724	1884	KN	<2	<0.5	11	15	14	17	<5	20	3	204	<5
725	1885	KN	<2	<0.5	17	<3	4	25	7	170	1	99	<5
726	1886	KN	<2	<0.5	21	4	16	14	<5	10	5	54	<5
727	1887	KN	<2	<0.5	23	<3	8	54	<5	50	6	400	<5
728	1888	KN	<2	<0.5	50	<3	24	<5	<5	140	1	116	<5
729	1889	KN	<2	<0.5	6	<3	7	8	<5	60	1	111	<5
730	1890	KN	<2	<0.5	19	4	3	26	<5	330	4	255	<5
731	1891	KN	<2	<0.5	7	<3	5	15	<5	20	3	72	<5
732	1892	KN	<2	<0.5	11	<3	7	15	<5	20	4	589	<5
733	1893	KN	<2	<0.5	9	7	8	10	<5	20	2	213	<5
734	1894	KN	<2	<0.5	6	6	14	7	<5	<10	2	1,641	<5
735	1895	KN	<2	<0.5	7	<3	5	<5	<5	10	<1	278	<5
736	1896	KN	<2	<0.5	26	<3	4	9	<5	780	2	191	<5
737	1897	KN	<2	<0.5	62	4	56	7	<5	80	2	219	<5
738	1898	KN	<2	<0.5	8	<3	19	64	<5	20	2	161	<5
739	1899	KN	<2	<0.5	14	15	32	156	<5	30	2	107	<5
740	1900	KN	<2	<0.5	17	42	67	200	<5	30	1	149	<5
741	1901	KN	<2	<0.5	13	102	30	232	<5	30	1	192	<5
742	1902	KN	<2	<0.5	12	82	30	254	<5	20	2	121	<5
743	1903	KN	<2	<0.5	17	245	34	347	<5	20	2	270	<5
744	1904	KN	<2	<0.5	14	78	32	236	<5	30	<1	201	<5
745	1905	KN	<2	<0.5	14	83	35	255	<5	20	<1	248	<5
746	1906	KN	<2	<0.5	12	50	28	188	<5	40	<1	231	<5
747	1907	KN	<2	<0.5	17	25	36	209	<5	20	<1	266	<5
748	1908	KN	<2	<0.5	13	51	28	206	<5	30	<1	235	<5
749	1909	KN	<2	<0.5	11	47	21	177	<5	40	1	181	<5
750	1910	KN	<2	<0.5	10	19	22	168	<5	20	1	227	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
751	1911 KN	<2	<0.5	42	18	62	482	<5	20	<1	317	<5
752	1912 KN	<2	<0.5	39	22	85	918	<5	10	2	142	<5
753	1913 KN	<2	<0.5	45	<3	201	10	<5	10	2	629	<5
754	1914 KN	<2	<0.5	54	<3	89	356	<5	30	1	25	<5
755	1915 KN	<2	<0.5	10	4	12	84	<5	10	2	159	<5
756	1916 KN	<2	<0.5	18	4	25	20	<5	20	2	319	<5
757	1917 KN	<2	<0.5	5	45	4	159	<5	10	1	89	<5
758	1918 KN	5	2.7	28	470	589	6	<5	70	2	140	<5
759	1919 KN	10	2.2	3	206	7	6	<5	10	2	1,077	<5
760	1920 KN	<2	<0.5	19	<3	82	<5	<5	10	1	97	<5
761	1921 KN	<2	<0.5	12	26	59	15	<5	10	<1	207	<5
762	1922 KN	<2	<0.5	12	37	7	31	<5	230	4	195	<5
763	1923 KN	<2	<0.5	13	16	107	9	<5	10	3	150	<5
764	1924 KN	<2	<0.5	6	12	17	<5	<5	30	<1	172	<5
765	1925 KN	<2	<0.5	4	71	26	12	<5	260	<1	129	<5
766	1926 KN	<2	<0.5	25	10	127	5	<5	20	2	171	<5
767	1927 KN	<2	<0.5	40	8	106	<5	<5	10	2	70	<5
768	1928 KN	<2	<0.5	<2	12	20	6	<5	10	1	179	<5
769	1929 KN	<2	<0.5	<2	13	32	7	<5	10	<1	217	<5
770	1930 KN	<2	<0.5	3	20	34	23	<5	10	2	180	<5
771	1934 KN	4	<0.5	4	16	32	5	<5	<10	<1	623	<5
772	1935 KN	<2	<0.5	<2	34	17	<5	<5	<10	2	1,083	<5
773	1936 KN	2	<0.5	36	4	76	<5	<5	10	2	113	<5
774	1937 KN	<2	<0.5	3	28	18	<5	<5	<10	1	382	<5
775	1938 KN	<2	<0.5	6	15	31	<5	<5	<10	<1	91	<5
776	1939 KN	<2	<0.5	3	11	98	<5	<5	20	<1	186	<5
777	1940 KN	<2	<0.5	2	19	17	<5	<5	20	2	277	<5
778	1941 KN	<2	<0.5	33	5	92	<5	<5	30	2	100	<5
779	1942 KN	<2	<0.5	8	35	11	53	<5	30	3	75	<5
780	1943 KN	<2	<0.5	42	30	69	41	<5	250	12	1,596	<5
781	1944 KN	<2	<0.5	<2	12	31	<5	<5	20	<1	1,247	<5
782	1945 KN	<2	<0.5	22	<3	80	<5	<5	30	1	78	<5
783	1946 KN	<2	<0.5	5	10	30	<5	<5	30	3	62	<5
784	1947 KN	<2	<0.5	40	4	83	<5	<5	30	<1	76	<5
785	1948 KN	<2	5.1	10	56	109	61	<5	300	1	164	<5
786	1949 KN	<2	<0.5	<2	3	80	6	<5	20	2	21	<5
787	1950 KN	<2	<0.5	168	7	83	<5	<5	10	<1	126	<5
788	1951 KN	<2	<0.5	104	3	78	<5	<5	30	2	136	<5
789	1952 KN	23	<0.5	9	21	3	161	9	80	4	126	<5
790	1953 KN	121	1.3	10	41	<2	528	26	110	6	607	21
791	1954 KN	<2	0.8	30	297	40	9	<5	20	<1	146	<5
792	1955 KN	17	13.5	31	280	10	21	<5	60	2	85	<5
793	1956 KN	6	22.7	143	1,672	148	33	<5	100	87	74	<5
794	1957 KN	7	<0.5	17	75	28	13	<5	30	7	45	<5
795	1958 KN	6	0.5	59	7	286	118	<5	50	<1	58	<5
796	1960 KN	<2	<0.5	<2	11	43	6	<5	<10	2	45	<5
797	1961 KN	410	9.3	93	136	24	3,210	93	<10	224	1,441	44
798	1962 KN	2	<0.5	22	74	356	37	<5	<10	2	122	<5
799	1970 MH	2	7.5	31	590	3,021	61	<5	290	<1	97	<5
800	1971 MH	<2	2.3	11	228	637	36	<5	170	2	357	<5

Appendix 9 Assay Results of Rock Samples

Serial No.	Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Ba ppm	Sn ppm
801	1972 MH	<2	12.4	10	2,135	1,115	47	<5	410	2	334	<5
802	1978 MH	<2	<0.5	4	140	1,852	<5	<5	100	<1	412	<5
803	1979 MH	<2	0.5	4	101	1,317	<5	<5	270	2	251	<5

Appendix 9 Assay Results of Rock Samples