



BARRINGER RESEARCH

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GEOCHEMICAL LABORATORY REPORT No. 19-A

FROM: Amal Mining Corp
Faso Y.S.
J. Jansons

P.O. No. _____ PROJECT No. TUMMEL - 463

DATE RECEIVED June 29/74. DATE COMPLETED July 3/74.

ANALYSED FOR	WEIGHT SAMPLE USED	EXTRACTION	METHOD OF ANALYSIS
<u>Cu Pb Zn</u>	<u>250 mgm</u>	<u>HClO₄</u>	<u>AA.</u>

REMARKS:

APPROVED BY: Orhead

SAMPLE TYPE: silt _s -	HClO ₄ Cu ppm	Pb ppm	Zn ppm	SAMPLE No	Cu ppm	Pb ppm	Zn ppm
SAMPLE NUMBER							
TE-1	29	31	90	TE-31	17	22	86
2	14	20	51	32	20	27	93
3	39	28	79	33	44	26	86
4	21	26	71	34	27	24	88
5	22	36	79	35	36	26	94
6	25	23	80	37	25	18	58
7	17	18	51	39	29	16	65
8	54	32	44	40	11	8	21
8	15	27	70	41	24	18	55
9	14	24	65	42	38	30	77
10	37	23	53	43	24	19	120
11	26	37	65	44	19	17	115
12	37	30	60	45	15	22	120
13	19	23	70	46	49	22	105
15	59	33	77	47	35	27	110
16	14	23	50	48	14	21	91
17	79	31	70	49	53	32	170
28	32	35	81	50	16	20	75
30	19	17	40	51	16	21	125

SAMPLE TYPE:		Cu	Pb	Zn	SAMPLE	Cu	Pb	Zn							
SAMPLE NUMBER		ppm	ppm	ppm	NO	ppm	ppm	ppm							
TD-29		26	28	160	TD-48	37	24	120							
30		31	28	175	49	17	24	180							
31		23	24	180	50	16	24	130							
32		19	28	93	51	26	20	52							
33		22	29	125	52	24	31	170							
34		90	34	185	53	19	30	155							
35		45	32	165	54	60	32	200							
36		66	39	88	57	43	30	140							
37		18	28	82	58	22	24	155							
38		10	24	115	59	27	30	230							
39		44	34	180	60	63	29	180							
40		17	26	155	61	37	21	91							
41		28	31	180	62	20	22	81							
42		31	34	130	63	17	25	71							
43		18	19	76	64	31	21	120							
44		34	24	89	67	31	23	120							
45		55	28	165	68	31	30	115							
46		29	28	170	69	58	45	205							
47		26	26	180	70	28	31	140							

SAMPLE TYPE:	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO	Cu ppm	Pb ppm	Zn ppm							
SAMPLE NUMBER														
TD - 71	15	27	130	TD-163	38	25	66							
72	13	22	71	164	69	30	70							
73	34	27	92	165	15	19	54							
74	19	27	79	166	27	21	61							
75	21	27	89	167	31	23	78							
76	36	27	93	168	34	22	68							
77	39	37	120	169	31	22	57							
80	32	21	51	170	12	20	56							
81	22	27	89	171	75	21	66							
82	14	22	52	172	14	21	64							
83	22	25	70	173	42	31	70							
84	20	24	85	174	34	27	190							
85	21	26	76	175	12	19	28							
86	30	22	110	176	15	27	59							
158	20	19	72	177	17	20	70							
159	33	20	190	178	19	21	61							
160	26	22	250	179	32	27	67							
161	47	27	150	183	19	23	85							
162	37	24	64	184	8	18	230							

BR

SAMPLE TYPE:	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO	Cu ppm	Pb ppm	Zn ppm							
SAMPLE NUMBER														
TD-185	9	21	330	TD-210	21	25	94							
186	17	23	93	211	36	36	64							
187	31	30	125	212	33	28	55							
191	51	27	61	213	15	24	215							
192	32	26	67	214	19	23	86							
193	15	18	73	215	17	36	120							
194	30	21	44	216	21	28	86							
195	48	32	63	217	13	24	140							
196	34	30	67	218	19	26	80							
197	16	23	56	224	18	22	73							
198	17	29	160	225	25	29	110							
199	21	30	78	226	20	26	72							
200	19	28	78	227	25	27	83							
201	39	27	75	TH-1	20	30	57							
203	20	24	51	2	21	27	67							
206	21	23	87	3	79	32	90							
207	22	28	75	4	15	28	69							
208	31	23	54	5	18	30	57							
209	12	25	80	6	25	26	61							

SAMPLE TYPE:		Cu	Pb	Zn	SAMPLE	Cu	Pb	Zn						
SAMPLE NUMBER		ppm	ppm	ppm	NO.	ppm	ppm	ppm						
TH--	7	22	27	56	TH-28	34	30	105						
	8	8	28	84	29	15	26	75						
	9	11	28	78	30	22	29	160						
	10	32	44	71	31	16	24	59						
	11	46	31	76	32	64	41	115						
	12	15	23	160	33	40	56	81						
	13	18	24	175	34	34	22	79						
	14	29	30	145	35	16	27	79						
	15	23	31	70	36	18	26	83						
	17	32	30	125	37	49	28	95						
	18	19	25	68	38	34	21	70						
	19	48	25	410	39	18	21	180						
	20	42	26	90	40	89	20	165						
	21	14	18	75	41	17	19	50						
	22	26	22	45	42	105	32	72						
	23	34	23	80	43	17	27	205						
	24	40	27	105	44	32	27	77						
	25	15	16	45	45	39	29	110						
	27	14	26	70	46	6	10	10						

SR

SAMPLE TYPE:	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO	Cu ppm	Pb ppm	Zn ppm
SAMPLE NUMBER							
TH-47	25	23	68	TH-68	14	21	100
48	18	24	81	69	25	22	49
49	31	37	62	70	21	25	60
50	35	20	120	71	10	20	130
51	39	28	95	72	15	26	70
52	30	24	72	73	36	26	77
53	28	23	63	74	34	21	83
54	5	7	6	75	19	19	82
55	10	21	42	76	16	27	120
56	19	27	70	77	24	18	74
58	34	41	69	78	40	26	74
59	36	30	47	79	39	23	64
61	7	13	12	80	28	33	300
62	24	22	83	81	21	22	210
63	35	35	93	82	44	23	285
64	42	46	84	84	23	24	70
65	26	26	78	85	29	21	105
66	19	13	37	86	32	28	66
67	18	25	81	87	63	23	57

OR

SAMPLE TYPE:		Cu ppm	Pb ppm	Zn ppm		SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm						
SAMPLE NUMBER															
TH-129		49	28	175		TA-5	34	30	73						
130		37	36	81		6	11	23	130						
131		75	43	78		7	14	15	76						
132		65	38	75		8	23	21	83						
133		43	34	120		9	20	14	57						
134		34	21	74		10	22	11	29						
135		57	34	82		11	56	24	64						
136		30	29	55		12	51	21	110						
¹³⁶ GOSSING		11	40	32		13	46	34	91						
¹³⁶⁺⁴⁰⁰ GOSSING		21	42	57		14	40	28	82						
137		14	17	17		15	11	17	68						
138		19	23	70		16	20	20	71						
139		29	30	115		17	52	17	75						
140		54	30	74		18	31	20	90						
141		25	33	73		19	11	17	155						
TA-1		39	25	235		20	16	18	87						
2		22	21	185		21	14	15	120						
3		26	25	145		22	22	17	69						
4		13	20	125		23	8	19	71						



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GEOCHEMICAL LABORATORY REPORT NO. 32-A

FROM: Amal Mining Corp
Faro Y.T.

P.O. NO. _____ PROJECT NO. TUMMEL - 463.

DATE RECEIVED July 12/74 DATE COMPLETED July 19/74.

ANALYSED FOR	WEIGHT SAMPLE USED	EXTRACTION	METHOD OF ANALYSIS
<u>Cu Pb Zn</u>	<u>250 mgm</u>	<u>HClO₄</u>	<u>AA.</u>

REMARKS:

APPROVED BY: W. Read

SAMPLE TYPE: SILS	HClO ₄ Cu ppm	Pb ppm	Zn ppm	Sample #	HClO ₄ Cu ppm	Pb ppm	Zn ppm
SAMPLE NUMBER							
AN-1	72	470	580	AN-20	65	450	520
2	82	600	660	TA-25	67	35	94
3	26	26	78	26	40	32	71
4	92	640	900	27	24	29	72
5	93	620	1000	28	29	26	64
6	90	590	780	29	20	17	53
7	100	680	900	30	13	22	69
8	120	750	1100	31	21	18	54
9	28	40	120	32	11	19	57
10	83	620	810	33	20	22	62
11	47	230	360	34	18	16	48
12	N.S.	N.S.	N.S.	42	29	19	52
13	155	570	1700	43	61	33	73
14	74	530	650	44	15	23	64
15	84	160	380	45	41	56	145
16	89	700	680	46	41	28	62
17	45	68	170	47	36	21	77
18	84	1100	900	48	14	17	52
19	N.S.	N.S.	N.S.	49	15	21	40

SAMPLE TYPE: SILTS	HClO ₄ Cu ppm	Pb ppm	Zn ppm	Sample #	HClO ₄ Cu ppm	Pb ppm	Zn ppm							
SAMPLE NUMBER														
TA-50	14	14	63	TA-86	37	20	78							
62	50	33	78	87	11	20	59							
63	24	24	62	88	37	25	76							
64	31	27	68	89	47	34	120							
65	13	21	89	90	14	21	62							
66	13	15	43	91	15	24	64							
67	22	27	57	92	10	20	85							
68	23	21	60	93	15	17	47							
69	16	19	46	94	33	22	70							
71	10	19	49	95B	21	19	120							
72	18	18	38	97	16	18	64							
73	19	19	71	98	14	23	52							
75	17	21	78	99	18	18	48							
77	10	19	63	100	19	17	73							
79	24	19	58	101	11	19	54							
81	36	18	69	102	15	19	58							
82	18	19	52	103	20	17	77							
83	19	20	51	104	11	24	64							
85	33	24	60	105	20	21	51							

SAMPLE TYPE: SILTS	HClO ₄ Cu ppm	Pb ppm	Zn ppm	Sample #	HClO ₄ Cu ppm	Pb ppm	Zn ppm
SAMPLE NUMBER							
TA-106	20	21	53	TA-131	26	15	38
107	16	18	19	132	50	25	82
108	12	25	48	133	11	23	71
109	48	28	68	134	53	26	88
110	36	21	54	135	48	25	64
111	27	27	64	136	24	22	55
112	38	35	71	137	18	21	60
113	25	28	81	138	17	20	68
114	20	18	80	139	32	20	78
115	27	23	110	140	17	25	59
116	21	39	110	141	25	24	57
117	44	26	81	142	17	19	69
118	27	26	77	144	32	42	87
119	13	25	71	145	11	23	92
120	22	23	65	146	12	10	73
121	17	25	81	147	19	16	53
126	16	22	72	148	4	10	10
128	18	22	45	149	12	19	80
130	28	20	73	150	14	21	135

SAMPLE TYPE:		HClO ₄				Sample	HClO ₄	Pb	Zn					
Silts		Cu	Pb	Zn		#	Cu	ppm	ppm					
SAMPLE NUMBER		ppm	ppm	ppm			ppm							
TA-151		32	19	61		173	11	19	58					
152		25	15	72		174	18	17	40					
154		43	21	105		175	20	19	49					
157		26	19	52		176	34	31	86					
158		60	26	81		177	34	25	66					
159		16	21	68		178	23	22	68					
160		47	30	66		179	23	22	135					
161		12	19	46		180	25	27	78					
162		20	23	61		187	19	17	55					
163		17	19	64		188	25	19	48					
164		15	20	54		191	15	18	42					
165		31	18	64		192	20	15	46					
166		31	22	58		193	52	27	80					
167		24	26	69		194	34	24	91					
168		11	18	79		195	34	22	73					
169		31	24	75		196	18	21	56					
170		14	21	64		197	25	24	130					
171		45	34	140		198	50	20	38					
172		17	19	68		201	12	16	63					

SAMPLE TYPE: SILTS	HClO ₄ Cu ppm	Pb ppm	Zn ppm	Sample #	HClO ₄ Cu ppm	Pb ppm	Zn ppm							
SAMPLE NUMBER														
TA-202	42	19	135	TA-223	10	19	53							
203	32	22	73	224	28	21	120							
205	15	18	135	225	24	19	69							
207	12	18	46	226	33	25	48							
208	15	17	57	227	46	28	91							
209	10	18	220	239	65	26	175							
210	13	15	55	240	54	23	150							
211	12	20	60	241	48	22	145							
212	18	22	105	242	48	24	140							
213	54	27	170	243	45	21	135							
214	10	24	74	244	40	22	130							
215	14	20	60	245	29	22	91							
216	31	23	78	246	33	19	120							
217	16	20	86	246A	42	23	17							
218	23	18	69	246B	40	24	125							
219	34	20	76	247	39	22	120							
220	17	19	54	248	22	17	85							
221	23	22	83	249	22	18	89							
222	20	19	54	250	29	21	115							

OR

SAMPLE TYPE:		HClO ₄					Sample	HClO ₄							
Silts			Pb	Zn			#	Cu	Pb	Zn					
SAMPLE NUMBER		Cu ppm	ppm	ppm				ppm	ppm	ppm					
TA-251		35	28	120			TA-273	16	15	29					
252		36	21	135			274	34	23	87					
253		26	22	115			275	26	13	44					
254		34	22	125			282	23	19	84					
255		41	24	140			282A	25	18	115					
256		34	23	120			282B	36	22	165					
257		31	20	120			282C	23	19	115					
258		45	15	130			282D	29	21	115					
259		27	21	110			283	30	20	78					
260		30	18	115			284	21	17	64					
261		26	20	93			285	43	20	83					
262		43	29	145			286	17	14	62					
263		38	25	130			287	20	16	65					
264		27	20	110			289	24	17	66					
265		32	20	115			290	23	17	68					
266		30	21	115			291	18	17	70					
267		31	32	78			292	22	16	56					
272		20	16	55			293	21	15	55					
272A		21	15	50			294	14	15	66					

SAMPLE TYPE:		HClO ₄	Pb	Zn		Sample	HClO ₄	Pb	Zn					
Silts		Cu	ppm	ppm		#	Cu	ppm	ppm					
SAMPLE NUMBER		ppm					ppm							
TA-295		43	19	81		TA-313	85	32	295					
296		23	18	74		TB-12	12	13	14					
297		35	21	200		13	75	39	185					
1-297		33	22	185		14	23	26	27					
298		31	20	190		15	12	19	50					
299		34	21	195		16	34	18	46					
300		32	19	180		17	31	18	37					
301		35	22	215		31	17	20	61					
302		42	24	230		32	N.S.	N.S.	N.S.					
303		43	23	240		33	35	20	75					
304		39	22	215		34	29	19	63					
305		38	20	220		35	18	19	57					
306		60	24	340		36	37	23	68					
307		61	24	350		124	24	18	89					
308		59	22	290		125	26	19	87					
309		67	25	410		126	25	19	90					
310		58	24	295		127	14	20	67					
311		64	25	330		128	18	19	81					
312		75	26	310		129	20	18	77					

SAMPLE TYPE: SILTS	HClO ₄ Cu ppm	Pb ppm	Zn ppm	Sample #	HClO ₄ Cu ppm	Pb ppm	Zn ppm							
SAMPLE NUMBER														
TB-138	40	22	140	TC-22	9	22	76							
139	165	31	290	23A	12	23	76							
140	76	26	185	23	10	24	57							
141	45	20	125	24	16	26	56							
142	43	19	120	25	11	23	48							
143	48	21	135	26	17	24	74							
144	86	24	155	27	28	26	59							
145	52	22	150	28	20	22	64							
146	55	22	150	29	10	27	38							
TC-1	18	24	79	31	21	27	175							
2	26	17	145	32	12	26	130							
3	17	20	140	33	23	21	86							
10	18	19	160	34	19	26	88							
11	23	24	80	35	15	22	150							
12	27	25	75	36	16	23	140							
17	11	18	33	37	16	27	78							
19	33	15	26	38	17	27	77							
20	12	20	67	TD-231	21	23	78							
21	12	21	51	232	34	29	89							

