ELECTROLYTIC ZINC CO. OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. MRP 219 1 of 7

LOCATION Mt. Black E.L. 1/62 Murchison Rover Grid

OBJECTIVE To follow-up Sn mineralisation on the western contact of the Farrel' Slates by MRP 212, drilled 200m to the north.

RESULT Very weak Sn mineralisation is associated with sulphide and fluorite bearing sediments below their contact with intermediate volcanics.

Footage	Direction	Dip.

AMG

Depth	Direction	Dip.
0m	101°	-58.5°
56m		-56.5°
98m		-55.5°
140m		-54°

COLLAR DIP. -60°
DIRECTION 90° AMG
R.L. 171.3m
COORDINATES
Grid 5,374,100N 384,435E
AMG 5,374,104.1BN 384,449.97E

TOTAL DEPTH 140.8m
HOLE SIZE HQ 39m, NQ 47m, BQ rest
COMMENCED 21.10.'80
COMPLETED 6.11.'80
LOGGED BY I.R. McDonald

METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION
0	32.6	Glacial Overburden 0–18 Recovery restricted to pebbles of quartzite. 18–18.4 Quartzite pebbles with sand & gravel inflow into hole. 18.4–21 Quartzite pebbles 21–31.5 F-mg sand, possible fluviglacial channel 31.5–32.6 Pebbles of quartzite & occassional Intermediate Volcanics	
32.6	33	Broken scree of Intermediate Volcanics with minor solid core of grey-green fg massive Intermediate andesite lava. Weakly chloritised with thin carbonate veinlets.	
33	42.4	Green f-mg porphyritic, vitric, lithic, crystal tuff. Intermediate trachy-andesite. Weakly chloritised & carbonated. Quartz-carbonate veins common with carbonate often removed by solution. Carbonate very white suggesting calcite. Limonite staining on joints decreases downwards. Phenocrysts are feldspar; liths are fg feldspathic, possibly trachytic. Clots & irregular veinlets of chlorite may represent shale liths but are more likely devitrified glass. Rare chloritic patches have flamme like shaps suggesting some ashflow component. 33–34.7 Core fairly broken. 36.4–37.2 " " " 40.5–42.4 Decreasing grainsize with increasing quartz-carbonate veining & carbonation of the groundmass. Lower contact weakly brecciated against carbonate-(quartz) veins at 65°.	

SAMPLES

Sample No.	From	To	Core Rec'd	Sample Length	Assay Data per ppm Pb	Zn	Cu	Ag	Mn	Fe%	As	Sn
C = Chip S = Split												
38337C	32.6	35.0	2.6	2.4	10	180	5	0.5	2000	5.7%	20	X
338C	35.0	40.0	5.0	5.0	5	175	5	X	1800	6.2	5	X
339C	40.0	42.4	2.4	2.4	5	95	5	X	1450	3.0	X	6
38340C	42.4	45.0	2.6	2.6	5	85	5	X	1450	2.95	X	10
341C	45.0	47.3	2.3	2.3	X	100	5	X	1450	3.45	X	X
342C	47.3	51.2	3.9	3.9	5	60	X	0.5	1200	2.10	X	X
343C	51.2	55.8	4.6	4.6	5	130	X	X	1800	4.6	X	X
344C	55.8	60.0	4.2	4.2	5	97	5	0.5	1500	3.35	X	6
345C	60.0	62.65	2.65	2.65	10	90	X	X	1700	3.0	X	X
346C	62.65	64.5	1.85	1.85	5	125	X	X	1650	4.4	12	X
347C	64.5	67.7	3.1	3.2	X	125	X	0.5	1550	4.2	12	X
348C	67.7	72.5	4.8	4.8	5	125	X	0.5	1900	4.2	1	X
349C	72.5	75.0	2.5	2.5	5	135	5	0.5	1850	4.5	X	X
38350C	75.0	79.6	4.6	4.6	5	135	5	1.0	1900	4.2	X	X
351C	79.6	83.5	3.9	3.9	5	160	5	0.5	2150	5.1	X	X
352C	83.5	88.0	4.5	4.5	X	230	5	X	1900	7.1	X	X
353C	88.0	91.4	3.4	3.4	X	215	5	X	1900	7.1	X	X
354C	91.4	95.0	3.6	3.5	5	125	5	X	1700	3.45	X	X
355C	95.0	98.1	3.1	3.1	5	125	5	0.5	1450	4.0	X	X
356C	98.1	99.1	1.7	1.7	10	225	5	0.5	2050	6.6	1	X
357C	99.8	103.8	4.0	4.0	X	190	5	X	1950	6.25	1	X
358C	103.8	108.8	5.0	5.0	5	120	5	0.5	1650	3.7	1	X
359C	108.8	110.25	1.45	1.45	345	420	10	0.5	11000	11.5	41	65
38301S	110.25	111.25	1.0	1.0	450	1000	5	1.0	12000	5.8	34	X
302S	111.25	111.55	0.3	0.3	95	210	30	1.0	5700	9.7	190	50
303S	111.55	112.4	0.85	0.85	240	490	X	1.0	4250	4.15	170	400
304S	112.4	112.75	0.35	0.35	1000	1400	45	2.5	15000	12.0	150	X
305S	112.75	113.0	0.25	0.25	340	2900	260	4.0	2000	7.25	160	30
306S	113.0	113.25	0.25	0.25	4350	420	3300	110.0	1500	16.0	60000	0.63% (By XRF)
307S	113.25	114.0	0.75	0.75	540	2300	245	4.0	900	460	3650	6
308S	114.0	115.0	1.0	1.0	350	190	160	2.5	515	3.5	570	30
309S	115.0	115.8	0.8	0.8	160	100	120	1.5	545	4.05	270	X

CORE REC'D

RUN	SHORT

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION
42.4	47.3	Grey-green, fg weakly porphyritic lithic crystal tuff. Intermediate andesite. Strongly carbonated, weakly silicified, with quartz-carbonate veins. Some whispy textures suggest ashflow origins but may be due to weak cleavage. 47.1–47.3 Weakly chloritised. Lower contact gradational.	
47.3	47.8	Pale gry fg strongly silicified Intermediate volcanic centred on a quartz vein at 47.4–47.5. Lower contact gradational.	
47.8	51.2	Grey-green, fg silicified & carbonated, lithic crystal tuff. Intermediate andesite Weakly chloritised with quartz-carbonate veins. Carbonate is all white suggesting calcite. 50.2–50.7 Chloritic breccia zone healed by cg quartz-carbonate clots and veins. 51.0–51.2 Zone of increasing silicification ending in quartz vein forming lower contact at 50°.	
51.20	51.6	Green fg massive Intermediate andesite lava or minor intrusive, with quartz-carbonate veins. Lower contact irregular approx. 30°	
51.6	51.75	Green m-cg porphyritic with fg chloritised groundmass, crystal lithic tuff, Intermediate andesite with quartz-carbonate veins & clots Lower contact diffuse & quartz veined.	
51.75	53.2	Grey-green, fg strongly silicified and weakly chloritised., crystal lithic tuff, Intermediate ?andesite. Strong quartz-carbonate veins, especially from 52.2–52.65.	
53.2	55.8	Green, fg weakly porphyritic Intermediate andesite lava with carbonate-quartz vns. Carbonate is cream coloured suggesting an ankerite or siderite content. 54.9–55.3 Veryfg & very strongly chloritised	

Sample No.	From	To	Core Rec'd	Sample Length	Assay Data per ppm Pb	Zn	Cu	Ag	Mn	Fe%	As	Sn	CORE REC'D RUN	SHORT
383105	115.8	116.7	0.9	0.9	110	130	95	1.5	500	3.45	250	14		
3115	116.7	117.8	1.1	1.1	50	420	50	1.0	850	3.05	57	X		
3125	117.8	118.65	0.85	0.85	130	200	50	0.5	2700	3.75	53	26		
3135	118.65	119.3	0.65	0.65	50	75	120	1.5	2500	4.6	43	X		
3145	119.3	120.35	1.05	1.05	150	420	390	6.0	1000	6.55	2300	60		
3155	120.35	121.3	0.95	0.95	35	60	125	1.0	1100	3.65	250	440		
3165	121.3	121.9	0.6	0.6	10	55	65	0.5	1450	5.5	500	200		
3175	121.9	122.65	0.75	0.75	30	50	305	0.5	1650	4.5	2300	230		
3185	122.65	123.65	1.0	1.0	40	50	325	2.0	1200	2.8	4700	0.27% (By XRF)		
3195	123.65	124.6	0.95	0.95	25	40	25	0.5	1100	4.9	300	96		
383205	124.6	125.7	1.1	1.1	30	40	90	0.5	1900	5.9	250	X		
3215	125.7	126.5	0.8	0.8	5	30	25	0.5	3300	4.5	350	200		
3225	126.5	127.2	0.7	0.7	30	85	30	1.0	3300	6.2	210	300		
3235	127.2	127.8	0.6	0.6	40	20	145	1.5	1800	3.2	380	35		
383245	127.8	128.45	0.65	0.65	200	20	230	3.0	1350	3.85	250	X		
383255	128.45	129.35	0.9	0.9	55	45	330	1.5	2450	9.0	2000	4		
383265	129.35	129.8	0.45	0.45	50	80	30	X	12000	8.4	480	14		
3275	129.8	130.8	1.0	1.0	270	350	30	0.5	5050	4.5	300	X		
3285	130.8	131.8	1.0	1.0	750	430	255	5.5	1650	8.3	320	X		
3295	131.8	132.8	1.0	1.0	540	800	185	5.0	2450	6.15	2500	X		
3305	132.8	133.8	1.0	1.0	40	150	130	0.5	3000	5.65	290	X		
3315	133.8	134.3	0.5	0.5	360	710	255	2.5	1500	9.6	350	X		
3325	134.3	135.1	0.8	0.8	490	620	190	3.0	800	4.45	140	8		
3335	135.1	135.9	0.8	0.8	5100	700	110	22.5	1000	5.0	140	12		
3345	135.9	136.6	0.7	0.7	950	1300	140	13.0	1100	6.25	390	48		
3355	136.6	136.75	0.15	0.15	2100	270	755	53.0	505	5.45	200	X		
3365	136.75	137.75	1.0	1.0	70	395	20	0.5	2300	3.0	140	X		
3600	137.75	140.8	3.05	3.05	255	70	15	1.0	2250	3.5	100	22		

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA: Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%		CORE REC'D: RUN	SHORT
55.8	56.1	Grey-green, mg porphyritic crystal lithic tuff. Intermediate andesite, weakly chloritised. Contacts diffuse.															
56.1	62.65	Green, generally fg, crystal lithic tuff Intermediate andesite chloritised & silicified with quartz-carbonate veins. Rare liths of trachytic to rhyolitic composition reach 35mm across. Some patches are very strongly silicified and quartz veined. Carbonate in veins is all white suggesting calcite. Lower contact fairly sharp at 70°.	Traces of sphalerite on some quartz-carbonate veins.														
62.65	64.5	Green, fg, carbonate-quartz veined Intermediate andesite lava. Carbonate largely dissolved out of veins leaving a vuggy appearance. 63.1–64.4 Core broken & oxidised with brown limonite staining on joints and vein cavities. Where present carbonate is cream coloured suggesting ankerite or siderite.														
64.5	72.5	Green, mottled in places, fg autobrecciated andesite lava. Weakly chloritised veins and clots 65.8–67.7 Oxidised with limonite staining and carbonate dissolved out of veins and clots giving a vuggy appearance. Core recovery 90%.														
72.5	79.6	Green, fg, generally massive, Intermediate andesite lava. Weakly chloritised & silicified. Quartz-carbonate veins. Rare thin bands of autobreccia in places. Carbonate is all white suggesting calcite. Lower contact diffuse through a 10cm zone of strongly silicified volcanic.														
79.6	98.1	White/green, mg porphyritic, with fg groundmass. Lithic crystal Intermediate andesite lapilli tuff. Lithic fragments range upto 50mm but comprises less than 10% of the rock. Rock is chloritised and weakly silicified.														

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%		CORE REC'D RUN	CORE REC'D SHORT
		79.6-83.5 Quartz-carbonate veins abundant 83.5-91.4 Very few veins. 91.4-98.1 Scattered quartz-carbonate veins. In all cases carbonate is white suggesting calcite.															
98.1	99.8	Green, fg, generally massive Intermediate andesite lava, chloritised with some porphyritic bands. 98.1-98.25 Breccia zone, possibly a flow top breccia. 98.25-98.5 Mg porphyritic. 98.9-99.1 Mg porphyritic. 99.3-99.8 Quartz-carbonate veins.															
99.8	108.8	Grey-green, fg, weakly porphyritic autobrecciated Intermediate andesite lava, chloritised, silicified with quartz-tourcarbonate veins. 103.8-108.8 Increased quartz-carbonate veining. Lower contact sharp 50°.															
108.8	109.8	Green, fg, massive Intermediate andesite lava, chloritised, weakly silicified. 109.1-109.8 Core very broken – possible fault or shear zone.															
109.8	111.25	Pale green, fg, strongly veined and brecciated Intermediate andesite lava. Silicified & chlorities. Quartz-carbonate veins anneal breccias. Carbonate is cream coloured suggesting ankerite or siderite.	Minor disseminated limonite after sulphides in veins.														
111.25	111.55	Dark green, fg massive Intermediate andesite lava, chloritised. Minor carbonate veinlets.	1-2% fg disseminated pyrite														
111.55	112.75	Pale green, fg, brecciated Intermediate andesite lava. Chloritised and silicified Quartz-carbonate veins anneal textures. Carbonate is cream coloured suggesting ankerite or siderite. 112.4-112.75 Increased chlorite.	2-3% fg disseminated pyrite with rate stringers of pyrite and ?sphalerite.														

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA: Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%		CORE REC'D: RUN	SHORT
112.75	113.0	Breccia zone. Grey silicified Intermediate volcanic annealed by quartz veins.	3-4% pyrite as disseminations, blebs and stringers														
113.0	113.25	Near massive sulphides. Gangue of fractured quartz & fg chloritic material. Work banding at approximately 65°.	60% pyrite, arsenopyrite, chalcopyrite & minor pyrrhotite and ?cassiterite.														
113.25	127.2	Essentially of dark grey siltstone sequence, consisting of intimately interbedded fg tuffaceous wacke, siltstone, and dark grey to black chloritic shale, with bands and irregular blebs of white fg cherty siliceous material. Plastic slump structures are common. Some strongly contorted banding looks tectonic in origin. A weak cleavage persists throughout at 40-50° 114.2-115 Strongly contorted banding emphasised by siliceous "cherty" bands. 115.9-116.1 Banding subparallel in fg tuffaceous wacke. 116.1-117.1 Weak bedding approx 45° 117.1-117.4 Tight crenulated folds. Main axis approx. 75°, 117.5-117.8 Quartz veins 117.8-118.65 Carbonate-minor quartz veins Carbonate is cream to yellow suggesting ankerite or siderite. 118.65-118.7 Anastomosing quartz veins 118.9-119.1 Sub-parallel banding in shale around a block of fg tuffaceous wacke. 120.35-123.65 White "cherty" quartz nodules upto 5mm across 120.8-120.85 White quartz vein at 65°	113.25-114 3% pyrite as disseminations & stringers. 114-114.5 5-7% Pyrite as disseminations & stringers. 114.5-115.9 Variable 2-5% pyrite with minor pyrrhotite in stringers & veinlets. 115.9-116.1 5% pyrite with minor pyrrhotite disseminations & stringers 116.1-117.5 2-3% disseminated &stringer pyrite & pyrrhotite 117.5-117.8 4-5% Pyrite associated with the quartz veins. 117.8-118.25 >1% disseminated pyrite. 118.25-118.65 2-3% pyrite in stringers. 118.65-118.7 5-7% pyrite associated with the quartz veins. 118.7-119.3 3-4% disseminated pyrite & pyrrhotite 119.3-120.35 5% pyrite with subordinate pyrrhotite in stringers 120.35-120.8 3% pyrite & minor pyrrhotite in stringers. 120.8-120.85 5% pyrite associated with the quartz vein.														

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA: Sample & origin	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%		CORE REC'D: RUN	SHORT
			120.85–122.65 3–5% pyrite & pyrrhotite in stringers especially associated with zones rich in white quartz nodules. 122.65–123.65 3–4% pyrrhotite & pyrite in disseminations & stringers associated with cherty nodules & scattered fg green fluorite.														
		123.65–125.7 Core fairly broken 125.7–125.8 Crushed core, probable fault or shear zone. 125.8–127.1 Core fairly broken. 126.6–126.7 Strongly contorted banding with white cherty bands & cream carbonate clots. 127.1–127.2 Crushed core with puggy clay, probable fault or shear zone.	123.65–127.2 2–5% very fg disseminated pyrite & thin stringers of pyrite & irregular blebs of pyrrhotite.														
127.2	128.45	Pale grey to cream bleached altered siltstone, sericitised with contorted banding. Core fairly broken.	127.2–128.45 3–4% pyrite and pyrrhotite in stringers														
128.45	129.35	Grey, fg siliceous siltstone with thin bands of m–cg tuffaceous fragments.	128.45–129.35 5–7% pyrite and pyrrhotite in stringer and bands.														
129.35	130.7	Dark grey to green, fg tuffaceous wacke to siltstone. Weak banding contorted but averages 70–80° 129.35–129.6 Strong breccia annealed with quartz veins & clots.	129.35–131 1% fg disseminated pyrite with minor pyrrhotite.														
130.7	130.8	Strongly broken dark green chloritic siltstone. Probable fault or shear zone.															
130.8	136.6	Medium to dark grey interbedded fg tuffaceous wacke & siltstone. 131.5–131.7 Core very broken.	131–131.5 4–5% stringer of pyrite & pyrrhotite 131.5–131.7 1–2% fg disseminated pyrite & pyrrhotite 131.7–131.8 10% pyrite in large stringers														

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METRE FROM	METRE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA: Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%		CORE REC'D: RUN	SHORT
			131.8–134.3 2–5% pyrite & pyrrhotite in irregular stringers.														
		132.4–132.8 Core very broken with a crushed zone at 132.6															
		133.3–133.8 White quartz veins & nodules															
		133.8–134.3 Zone of broken & crushed core, probably a fault or shear zone.															
		134.3–135.1 Zone of quartz veins sub-parallel to core. Largest vein upto 10mm wide.	134.3–135.1 4–5% pyrite & pyrrhotite in blebs & stringers associated with quartz veins.														
			135.1–136.6 2–3% pyrite & pyrrhotite in stringers														
		136.4–136.6 Crushed core, probable fault or shear zone.															
136.6	136.75	White massive quartz vein. Contacts irregular.	136.6–136.75 10% pyrite & pyrrhotite in quartz vn.														
136.75	140.8	Dominantly grey siltstone interbedded with grey fg volcanic wacke & dark grey shale. Thin quartz-carbonate veins parallel a weak cleavage at 45–60°. Minor folding & micro-faulting occurs in the wacke bands Shale bands show plastic slump structures.	136.75–140.8 >1% pyrite associated with quartz carbonate vns.														
	EOH																

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