



Certificate of Analysis

TO _____
Curragh Resources

REPORT NO. W89-05629.7
DATE September 19, 1989

I hereby certify that the following are the results of analyses made by us upon the herein described water samples

MARKED	Cu _{tot}	Cu _{dis}	Pb _{tot}	Pb _{dis}	Zn _{tot}	Zn _{dis}	Mn _{tot}	Mn _{dis}	Fe _{tot}	Fe _{dis}
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Grum Collection Ditch-Dnst	4	4	L5	L5	8	17	42	37	1330	136
Grum Collection Ditch-Upst	L2	5	L5	L5	25	30	22	18	163	15
X 11 Aug 28	L2	3	L5	L5	10	43	3830	3720	1800	1560
Grum Adit " "	L2	L2	L5	L5	1380	1200	142	157	3510	1700
Grum Adit Pond Aug 28	L2	L2	L5	L5	550	354	96	94	530	9
Reservoir Creek Aug 29	L2	L2	L5	L5	4	17	35	36	413	99
S Rose Creek Aug 29	L2	L2	L5	L5	7	11	3	6	58	148



BONDAR-CLEGG & COMPANY LTD.

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MARKED	Na _{tot}	Na _{dis}	SO4	Fe2O3	Fe/ODP				
	ppm	ppm	ppm	%	mg				
Grum Collection Ditch-Dnst	3.0	3.0		32	0.222				
Grum Collection Ditch-Upst	3.6	3.6		6	0.044				
X 11 Aug 28	87.	87.		32	0.226				
Grum Adit Aug 28	11.1	11.2		61	0.429				
Grum Adit Pond Aug 28	11.3	11.3							
Reservoir Creek Aug 29	2.5	2.6	27						
S Rose Creek Aug 29	1.3	1.4	5						
% Fe2O3:by calculation Fe/ODP=mg Fe/mg oven dried precipitate									

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MARKED	Na _{tot}	Na _{dis}	S04	Fe203	Fe/ODP				
	ppm	ppm	ppm	%	mg				
Grum Collection Ditch-Dnst	3.0	3.0		32	0.222				
Grum Collection Ditch-Upst	3.6	3.6		6	0.044				
X 11 Aug 28	87.	87.		32	0.226				
Grum Adit Aug 28	11.1	11.2		61	0.429				
Grum Adit Pond Aug 28	11.3	11.3							
Reservoir Creek Aug 29	2.5	2.6	27						
S Rose Creek Aug 29	1.3	1.4	5						
% Fe203:by calculation Fe/ODP=mg Fe/mg oven dried precipitate									



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	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Grum Collection Ditch-Dnst	4	4	L5	L5	8	17	42	37	1330	136
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