

015075

1979 SAMPLES FOR WHOLE ROCK ANALYSIS

109 samples
10 standards

119 total

PROTOLITH STUDIES

5D (6)

77X-05	514.5-516.0m	78X-03	543.8-545.3m	5D3
77X-09	548.2-549.3m	76X-11-1	931-935'	5D3
78X-04	475.7-477.2m	77X-08	681.5-683.0m	5D3

1C/1D/3G (12)

1C: ✓ 77LA-02	294.0-295.0m	✓ 2505	1C	
✓ 78 Fat-01	22.0-23.0m	✓ 3448	1C	
3G: ✓ 78 Fin-01	93.0-94.4m	✓ 3083	3G phyllite	✓ 3766 3G schist ✓ 2942 Graphqtzit
		✓ 3759	3G andphyll	✓ 3088 3G phyllite
		✓ 5893	3G phyllite	✓ 3723 3G→3D cherty

3D/5B (28)

3D: ✓ 77X-07-1	(468.0-470.0m)	30:70 CS: Pelite	
✓ 456-75-13-1	(718.0-720.5')	40:60 CS: Pelite	✓ 3808 Wolverine
✓ 456-75-12	(430.0-435.0')	50:50 CS: Pelite	✓ 2619 Wolverine
✓ 66-MS-1-1	(251.0-252.5')	60:40 CS: Pelite	✓ 2577 Wolverine
✓ 456-75-13-2	(155.0-160.0')	CO ₃ =	✓ 2711 Mine
✓ 66-MS-1-2	(255.5-260.0')	CO ₃ =	✓ 6026 Mine
✓ 77X-01-1	(716.6-718.3m)	20:80 CS: Pelite	✓ 5696 Mine → 5676?
✓ 77X-10	(442.8-444.0m)	10:90 CS: Pelite	✓ 2618 3D volc or Coward
5B: ✓ 77X-07-2	(157.8-158.5m)	FeMgCO ₃	✓ 3905 5B
✓ 76X-22	(201.0-206.0')	5B	✓ 5556 5B
✓ 76X-11-2	(536.0-540.0')	5B	✓ 4223 5B
✓ 77X-01-2	(382.4-384.0m)	5B	✓ 6080 5B
✓ 77X-06	(63.0-64.1m)	5B	✓ 5809 5B
✓ 77X-07-3	(125.0-126.4m)	5B3	✓ 5901 (5A/G)
✓ 76X-11-3	(732-734')	5B	

METAVOLCANIC ROCKS

Vangorda Formation: (8)

S&SG? 5556 (5C)
 ✓ 5531 (5C)
 ✓ 5689 (5C gabbroic) 4228 (5C)
 ✓ 5596 (5C ultra mafic) ✓ 5905 (5C)
 ✓ 5882 (5C) ✓ 5564 (5C)

Menzie Creek Formation: (27)

o ← -5009	- 5794	- 5535	- 2602	- 4505	- 4663
- 5623	- 5549	- 4036	- 5764	✓ 4957	- 4474
- 6331	- 4974	- 3957	- 4198	- 4219	- 4648
	- 4082	- 3838	- 4197	- 4692	- 3555
	- 5329	- 4506	- 4955	- 5573	

Anvil Range Group: (12)

<u>Basalts</u> (Selwyn)	<u>Basalts</u> (Klondike)	<u>Dildo</u>
✓ 6064	✓ 6232	✓ 6114
✓ 4260	✓ 6189	✓ 6131
✓ 4144	✓ 6190	
✓ 6176	✓ 6313	
✓ 6322	✓ 6123	

South Fork: (2)

✓ 4948
 ✓ 5861

Finlayson Lake Suture Zone: (6)

<u>Basalts</u>	<u>Gabbros</u>
✓ 6101	✓ 6319
✓ 6128	✓ 2361
✓ 6318	✓ 3473

Klondike Schist: (8)

<u>Metabasites</u>	<u>Eclogites</u>
✓ 3500	✓ 3469
✓ 4327	✓ 4324 F
✓ 4762	
✓ 4768	
✓ 3465	
✓ 2323	

1979 SAMPLES FOR WHOLE ROCK ANALYSIS

4228	4144	77LA-02	5809
5531	4260	78 Fat-01	5901
5556	6064	78 Fin-01	6080
5564	6176	2505	7910 =SY-2
5596	6322	3448	
5689	6123	2942	
5882	6189	3083	
5902	6190	3088	
7901 =MRG-1	6232	3723	
2602	6313	3759	
3555	7905 =MRG-1	3766	
3838	4948	5893	
3957	5861	7908 =SY-2	
4036	6114	77X-07-1	
4082	6131	75-13-1	
4197	6101	75-12	
4198	6128	66-MS-1-1	
4219	6318	75-13-2	
7902 =MRG-1	2361	66-MS-1-2	
4474	3473	77X-01-1	
4505	6319	77X-10	
4506	7906 =MRG-1	2577	
4648	2323	2618	
4663	3465	2619	
4692	3500	2711	
4955	4327	3808	
4957	4762	5696	
4974	4768	6026	
7903 =MRG-1	3469	7909 =SY-2	
5009	4324 F	77X-07-2	
5329	77X-08	76X-22	
5535	77X-05	76X-11-2	
5549	77X-09	77X-01-2	
5573	78X-04	77X-06	
5623	78X-03	77X-07-3	
5764	76X-11-1	76X-11-3	
5794	7907 =MRG-1	3905	
6331		4223	
7904 =MRG-1		5556	



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Method _____ From Cyprus Anvil Mining Corp.

Fraction Used _____ Date September 14 19 79

SAMPLE NO.	%SiO ₂	%TiO ₂	%Al ₂ O ₃	%Fe ₂ O ₃	%MnO	MgO%	%CaO	%Na ₂ O	K₂O K ₂ O %	%P ₂ O ₅
SC 4228A	46.6	1.2	15.4	3.7	0.15	8.0	7.4	3.9	0.55	0.25
SC 4228B	47.3	1.2	14.9	3.15	0.14	8.2	7.5	3.7	0.5	0.23
SC 5531	46.8	4.7	15.4	5.0	0.21	5.6	4.8	4.0	0.25	0.58
SC 5556	56.0	0.2	20.6	3.85	0.08	4.0	2.0	5.0	2.2	0.16
SC 5564	44.7	2.2	18.5	3.6	0.16	4.2	6.2	5.35	0.4	0.45
SC inf 5596	47.0	3.2	13.0	4.7	0.19	4.8	7.0	3.5	0.2	0.47
SE galena 5689	39.5	4.45	11.3	4.9	0.22	6.35	8.0	3.1	0.35	0.36
SC 5882	56.0	0.9	17.4	3.6	0.08	4.0	1.75	3.0	1.95	0.30
<u>5902</u> ^{probably 5905 (SC)}	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7901	38.8	3.8	8.4	8.6	0.17	13.8	8.4	0.8	0.15	0.09
MCV 2602	46.8	3.15	13.4	5.9	0.20	5.8	13.4	2.5	0.55	0.51
MCV 3555	39.7	3.3	15.0	4.3	0.20	6.0	15.0	2.3	3.5	0.70
MCV 3838	49.4	2.25	14.2	2.1	0.16	5.7	14.2	3.1	2.15	0.41
MCV 3957	45.3	1.9	13.1	3.3	0.16	9.8	13.1	2.2	0.75	0.36
MCV 4036	49.0	2.2	14.3	2.1	0.18	7.2	14.3	3.9	0.2	0.39
MCV 4082	45.6	2.35	16.3	4.0	0.12	5.2	16.3	3.9	1.5	0.44
MCV 4197	47.4	1.55	16.5	2.6	0.15	6.3	10.0	2.8	2.6	0.24
MCV 4198	48.3	2.3	14.2	2.45	0.20	7.4	7.8	3.85	0.5	0.37
MCV 4219	45.2	1.2	12.9	2.6	0.15	7.2	12.5	4.2	0.1	0.31
7902	39.2	3.8	8.4	9.0	0.17	13.8	14.7	0.8	0.2	0.12
MCV 4474	45.2	1.65	17.5	2.9	0.14	8.8	3.2	4.3	0.45	0.58
MCV 4505	47.4	2.4	14.8	3.15	0.11	4.7	6.8	4.0	0.25	0.44
MCV 4506	48.0	3.4	14.7	1.8	0.15	5.6	8.4	3.8	1.3	0.46
MCV 4648	46.5	1.5	15.4	1.7	0.15	9.2	8.3	3.3	1.6	0.27
MCV 4663	46.5	2.65	15.1	4.9	0.18	5.1	9.2	2.2	<0.05	0.39
MCV 4692	44.0	2.5	12.8	3.0	0.14	5.8	9.8	4.2	0.65	0.41
MCV 4955	38.6	1.55	9.3	2.3	0.11	12.6	9.0	0.9	0.5	0.29
MCV 4957	45.6	3.7	16.2	5.0	0.15	5.1	5.8	4.5	0.5	0.56
MCV 4974 ^{feld. & not MCV? where!}	70.6	0.2	17.0	0.6	0.03	1.25	2.0	0.5	2.4	0.13
7903	38.5	4.0	8.6	8.6	0.17	14.1	15.1	0.8	0.2	0.06



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Method _____ From _____

Fraction Used _____ Date _____ 19__

SAMPLE NO.	L.O.I. %	% FeO	Zr ppm	Y ppm				REMARKS
4228A	4.6	8.6	120	< 5				
4228B	4.4	8.35	125	< 5				
5531	3.3	9.5	260	16				
5556	4.2	2.05	145	11				
5564	5.15	8.9	175	< 5				
5596	6.55	9.9	175	6				
5689	9.85	11.6	145	< 5				
5882	5.25	6.05	185	13				
5902	NS	NS	NS	NS				
7901	1.15	8.5	115	< 5				
2602	3.6	10.7	205	16				
3555	5.15	8.6	255	5				
3838	2.85	9.15	175	12				
3957	5.5	8.9	155	< 5				
4036	2.8	8.5	175	< 5				
4082	3.05	6.55	180	< 5				
4197	2.9	7.1	94	< 5				
4198	3.25	9.0	160	< 5				
4219	5.8	8.25	120	< 5				
7902	1.15	8.45	115	< 5				
4474	7.3	8.0	115	< 5				
4505	6.5	9.5	185	5				
4506	2.4	10.0	190	10				
4648	3.4	8.75	135	< 5				
4663	4.95	9.0	160	6				
4692	8.2	8.35	175	< 5				
4955	16.2	8.3	145	< 5				
4957	4.1	8.6	245	17				
4974	3.5	1.4	160	< 5				
7903	1.0	8.25	117	< 5				

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SAMPLE NO.	%SiO ₂	%TiO ₂	%Al ₂ O ₃	%Fe ₂ O ₃	%MnO	%MgO	%CaO	%Na ₂ O	K ₂ O	REMARKS	%P ₂ O ₅
MCV 5009	47.0	2.8	15.0	5.45	0.18	5.6	9.5	1.6	0.1		0.41
MCV 5329	44.5	4.0	14.4	6.7	0.17	5.5	6.4	3.9	1.0		0.58
MCV 5535	47.5	3.9	14.2	4.7	0.15	5.6	7.5	3.0	0.95		0.50
MCV 5549	42.3	0.6	10.2	2.3	0.20	23.2	8.1	0.35	0.15		0.38
MCV 5573	37.6	2.0	14.5	1.85	0.14	7.9	9.4	1.8	3.35		0.42
MCV 5623	46.1	1.5	13.6	4.0	0.12	7.6	14.5	0.5	3.8		0.70
MCV 5764	48.2	0.9	15.0	3.4	0.12	6.7	5.1	3.8	0.15		0.38
MCV 5794	40.6	3.15	13.0	2.6	0.08	4.8	7.5	0.95	5.7		0.56
MCV 6331	45.3	2.55	15.3	2.15	0.14	11.2	2.3	2.7	0.15		0.41
7904	38.7	4.0	8.4	8.7	0.17	13.9	14.7	0.7	0.2		0.10
ARG _{B SFB} 4144	47.0	1.5	15.6	2.3	0.15	10.4	8.0	3.15	0.25		0.20
ARG _{B SFB} 4260	47.2	1.2	15.6	3.3	0.17	7.2	11.8	1.9	0.3		0.15
ARG _{B SFB} 6064	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS
" 6176	46.7	2.2	14.0	4.85	0.32	7.4	9.2	3.5	0.8		0.20
" 6322	47.4	1.05	14.7	2.15	0.17	8.7	11.5	2.35	0.35		0.13
ARG _{B KSH} 6123	43.6	1.85	11.4	2.85	0.15	14.2	12.7	1.0	0.95		0.29
" 6189 UKS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS
" 6190	49.3	1.1	13.4	2.8	0.11	8.1	12.2	2.8	0.1		0.16
" 6232	40.3	0.05	0.8	9.0	0.20	31.0	6.9	0.1	0.05		0.07
" 6313	41.8	0.85	18.8	1.85	0.11	4.9	17.4	2.85	0.25		0.16
7905	38.5	4.0	8.6	8.8	0.17	13.8	14.8	0.8	0.2		0.13
South Fork 4948	58.6	0.55	17.7	2.0	0.08	3.5	4.5	2.6	1.3		0.19
South Fork 5861 UK7	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS
ARG _{B d. Ho} 6114	48.0	1.0	16.0	1.3	0.15	7.6	10.9	3.8	0.1		0.21
ARG _{B d. Ho} 6131	45.5	1.9	14.3	3.7	0.21	7.2	10.5	2.9	0.95		0.22
FLSZ _{Bas} 6101	47.4	1.1	14.2	3.15	0.25	7.6	9.7	3.85	0.15		0.18
FLSZ _{Bas} 6128	61.4	0.55	12.9	2.15	0.15	3.8	8.9	2.25	0.4		0.20
" 6318 UK4	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS
VCFZ Gabbrs 2361	45.2	0.3	15.0	1.0	0.11	8.8	20.0	0.2	<0.05		0.04
VCFZ Gabbrs 3473	47.8	0.2	17.5	2.7	0.11	9.0	13.7	2.85	0.35		0.08
VCFZ Gabbrs 6319	49.2	0.4	15.3	1.15	0.21	8.1	14.7	1.85	2.3		0.09
7906	39.2	4.0	8.9	8.8	0.18	13.2	14.6	0.85	0.25		0.13
φ _{mb} 2323	50.8	1.8	15.3	3.45	0.18	6.7	8.3	2.25	0.95		0.40
" 3465	50.7	1.0	16.1	2.6	0.17	6.1	7.1	3.65	2.25		0.18
" 3500	53.7	0.95	16.0	3.3	0.18	4.5	6.0	4.25	1.25		0.18

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SAMPLE NO.	%SiO ₂	%TiO ₂	%Al ₂ O ₃	%Fe ₂ O ₃	%MnO	%MgO	%CaO	%Na ₂ O	K ₂ O REMARKS %	%P ₂ O ₅
<i>Qmb</i> 4327	47.0	1.5	18.5	6.7	0.18	4.6	10.7	3.05	0.85	0.17
<i>Qmb</i> 4762	46.2	1.6	16.7	6.15	0.18	5.9	11.3	3.0	0.45	0.17
<i>Qmb</i> 4768	69.5	0.7	11.5	3.45	0.14	2.2	3.65	1.65	1.75	0.19
<i>eds, ka</i> 3469 <i>ukb</i>	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<i>al, ka</i> 4324F	48.5	2.4	14.2	3.7	0.26	3.8	8.1	1.7	0.15	0.55
<i>SD</i> 77X-08	46.7	0.2	13.8	2.45	0.15	7.1	8.6	2.5	0.3	0.28
<i>SD</i> 77X-05	44.8	0.45	14.8	2.1	0.20	7.0	8.2	0.6	2.3	0.39
<i>SD</i> 77X-09	47.9	0.05	12.0	0.15	0.11	3.8	14.8	1.8	1.9	0.23
<i>SD</i> 78X-04	58.3	0.15	18.0	1.45	0.08	2.8	3.05	1.8	3.7	0.15
<i>SD</i> 78X-03	49.4	1.35	15.2	2.55	0.11	5.0	7.6	1.6	2.35	0.36
<i>SD</i> 76X-11-1	51.3	0.15	17.5	1.0	0.05	3.1	8.0	1.3	3.4	0.12
- 7907	38.8	4.4	8.4	8.7	0.18	13.2	14.8	0.8	0.25	0.06
<i>IC</i> 77LA-02	56.7	0.9	22.5	9.1	0.26	2.0	0.8	1.5	3.6	0.18
<i>IC</i> 78-Fat-01	56.3	0.9	22.8	8.3	0.06	2.0	0.6	1.05	4.4	0.20
<i>3G</i> 78-Fin-01	57.0	0.55	22.0	8.7	0.06	2.0	0.5	1.1	3.7	0.18
<i>IC</i> 2505	62.6	1.0	15.6	9.45	0.12	2.0	1.2	2.3	2.7	0.44
<i>IC</i> 3448	55.5	1.4	23.7	8.3	0.04	2.5	0.5	3.3	2.5	0.18
<i>3E²</i> 2942	85.4	0.1	7.5	0.85	0.01	0.3	0.2	0.2	1.7	0.17
<i>3G phy</i> 3083	52.0	0.65	24.8	10.0	0.12	2.2	0.25	0.55	4.8	0.22
<i>3G phy</i> 3088	55.3	0.8	24.0	8.2	0.10	1.5	0.25	0.75	5.2	0.13
<i>3G phy</i> 3723	59.0	0.55	18.2	6.2	0.06	2.9	8.0	1.15	2.9	0.14
<i>3G phy</i> 3759	59.8	0.45	20.0	7.0	0.05	1.9	0.4	1.7	4.0	0.16
<i>3G seb</i> 3766	47.0	1.65	23.4	13.4	0.12	4.0	0.85	1.25	4.8	0.26
<i>3G phy</i> 5893	41.3	0.1	10.9	11.0	0.53	7.3	9.7	1.1	1.45	0.27
<i>SY-2</i> 7908	60.1	0.1	12.0	7.0	0.32	2.5	8.8	4.3	4.7	0.52
<i>3D</i> 77X-07-1	48.0	0.15	15.0	5.6	0.08	2.9	11.2	0.3	3.1	0.15
<i>3D</i> 75-13-1	52.3	0.5	16.4	6.45	0.08	3.2	11.7	1.85	3.4	0.14
<i>3D</i> 75-12	54.7	0.9	16.5	9.3	0.11	4.1	7.1	2.4	2.35	0.39
<i>3D</i> 66-MS-1-1	45.6	2.35	15.5	14.0	0.12	7.1	9.5	2.2	1.2	0.64
<i>3D</i> 75-13-2	52.9	0.6	20.6	7.15	0.07	3.8	6.1	1.6	3.8	0.16
<i>3D</i> 66-MS-1-2	50.4	0.45	17.4	6.7	0.10	3.2	10.0	2.3	3.0	0.14
<i>3D</i> 77X-01-1	50.7	0.1	17.1	6.7	0.08	3.0	8.6	1.0	3.5	0.14
<i>3D</i> 77X-10	46.2	1.0	24.8	10.6	0.15	3.9	3.4	2.3	3.7	0.25
<i>3Dw</i> 2577	54.2	0.55	18.7	6.85	0.05	3.7	8.9	2.2	4.25	0.15
<i>3D volc Cowardick</i> 2618	43.3	2.8	13.1	17.0	0.24	5.6	12.7	1.1	2.55	0.48

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SAMPLE NO.	L ₂ O.I. %	FeO %	Zr ppm	Y ppm				REMARKS
<i>φ mb</i> 4327	3.0	4.1	110	7				
4762	3.9	4.65	115	< 5				
4768	2.55	3.1	125	< 5				
3469	NS	NS	NS	NS				
4329F	0.2	16.3	310	75				
77X-08	9.6	7.85	145	< 5				
77X-05	10.2	8.7	175	11				
77X-09	13.8	6.05	150	< 5				
78X-04	5.0	5.15	185	21				
78X-03	7.85	6.55	155	9				
76X-11-1	9.0	5.15	150	11				
7907	1.25	8.5	113	< 5				
77LA-02	2.7	-	-	-				
78-Fat-01	3.4	-	-	-				
78-Fin-01	3.95	-	-	-				
2505	2.05	-	-	-				
3448	2.15	-	-	-				
2942	3.2	-	-	-				
3083	4.75	-	-	-				
3088	3.95	-	-	-				
3723	1.1	-	-	-				
3759	4.05	-	-	-				
3766	2.8	-	-	-				
5893	15.7	-	-	-				
7908	1.2	-	-	-				
77X-07-1	13.8	-	-	-				
75-13-1	4.3	-	-	-				
75-12	2.5	-	-	-				
66-MS-1-1	1.4	-	-	-				
75-13-2	3.55	-	-	-				
66-MS-1-2	6.05	-	-	-				
77X-01-1	9.4	-	-	-				
77X-10	4.0	-	-	-				
2577	0.75	-	-	-				
2618	0.75	-	-	-				

