



2 April, 1997

REGIONAL MANAGER GEOLOGY

Enclosed are Drill Logs etc. submitted by Westmin Resources Limited for assessment credit on the FOOT, KINK, and LOW mineral claims located on 105-G-08/09.

Drilling was as follows as attached.

Assessment credit requested is \$ 34,925.00. The drill core is stored on the property.

Yours truly,

*Patti L. McLeod
Mining Recorder
Watson Lake Mining District
P. O. Box 269
Watson Lake, Yukon
Y0A 1C0*

*NJM
encl.(s)*

093590

**1996 SUMMARY REPORT ON THE
FOOT 1 - 20, 37 - 80, 83 - 94, 180 - 188, 215 - 231,
11A - 12A, KINK 3, LOW 13 - 14**

**Located in the Pelly Mountains
Watson Lake Mining District
NTS 105G/8 and 9
61° 26' North Latitude
130° 07' West Longitude**

Prepared by

**Terry L. Tucker, P.Geo.
and
Andrew J. Turner, P.Geol.**

**WESTMIN RESOURCES LIMITED
P.O. Box 49066, Bentall Centre
Suite 904 - 1055 Dunsmuir Street
Vancouver, BC, Canada
V7X 1C4**

December 1996

DATES OF WORK PERFORMED

4 APRIL TO 10 OCTOBER 1996

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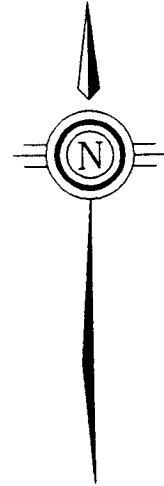
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1.0 1996 WORK PROGRAM

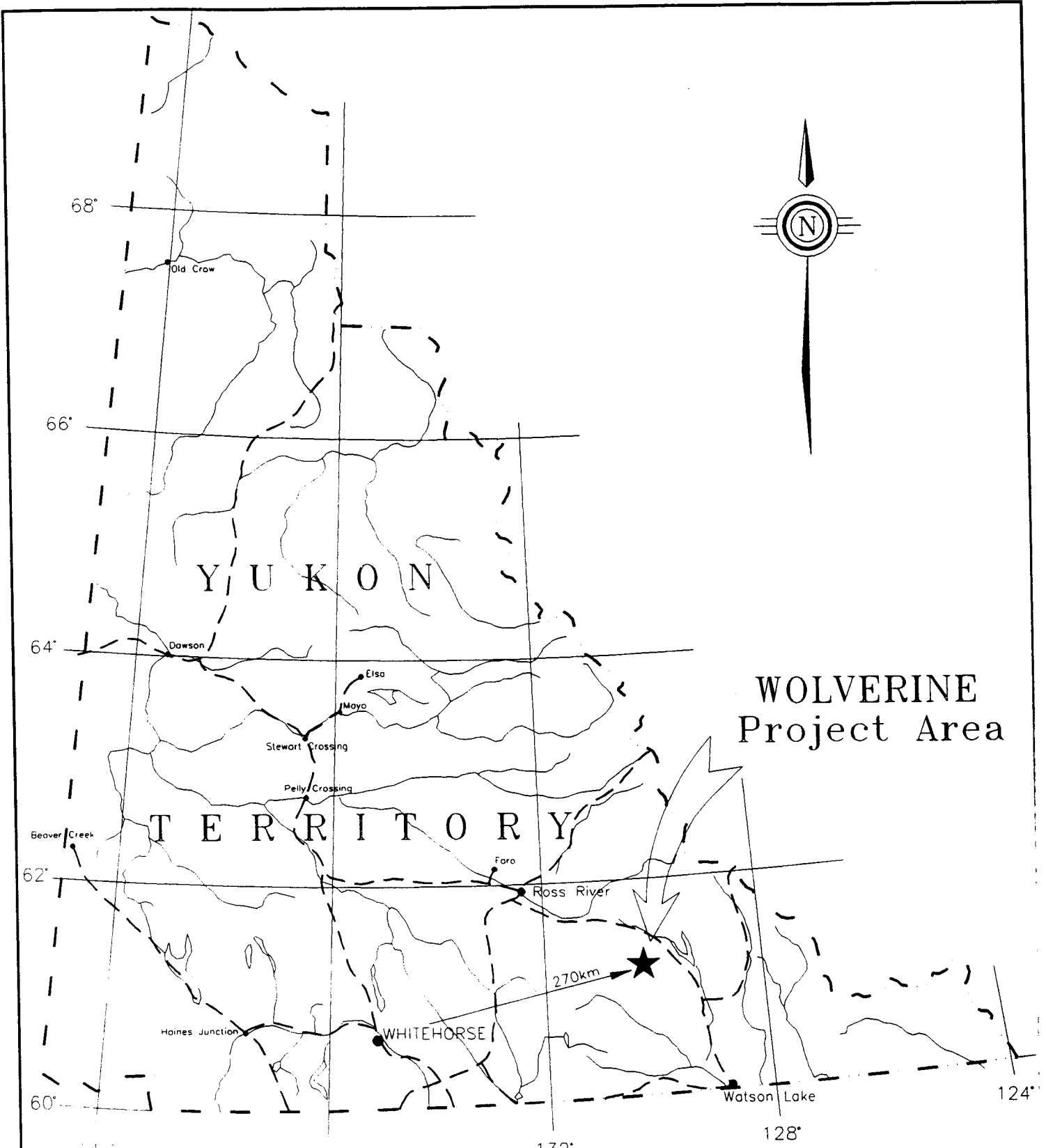
The FOOT property consists of 107 Yukon mineral claims located in the Watson Lake Mining District (figure 1). Figure 2 illustrates the detailed location of the claims.

Westmin Resources Limited carried out a diamond drill program on the Wolverine Project during the 1996 exploration season. Work commenced on the 4 April and continued until the 10 October 1996. In total forty eight drill holes and 16926.2 meters of drilling were completed during this period. The project was supported from a base camp on Wolverine Lake.

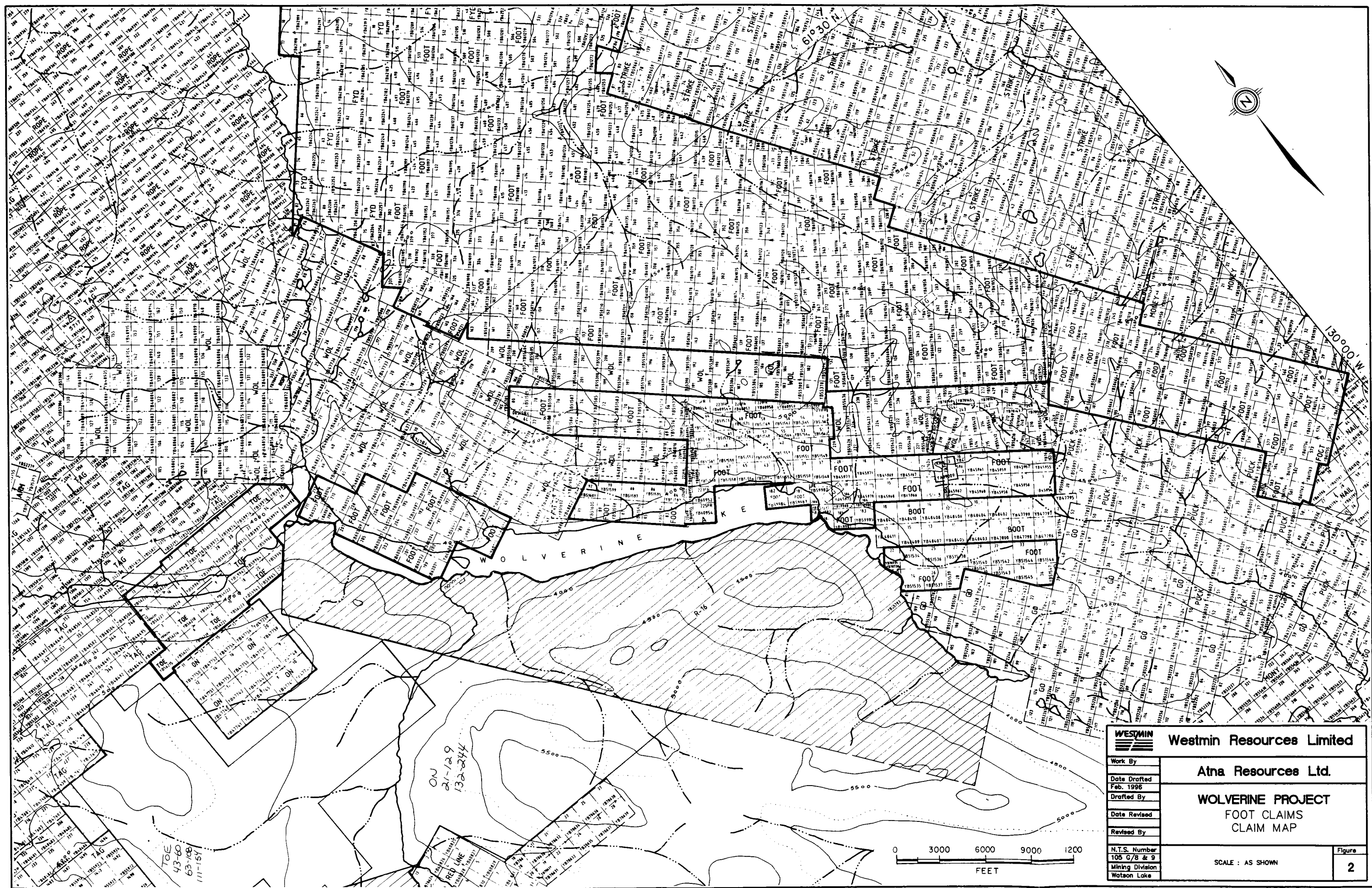
The work is summarized in section 3.0. Drill sections and a location map are found in the attached pockets. Figures 3 to 29 are the drill sections and figure 30 illustrates collar location with respect to the claims.



WOLVERINE Project Area



	WESTMIN RESOURCES LIMITED ATNA RESOURCES LTD.	
Work By Westmin	WOLVERINE PROJECT	
Date Drafted Nov. 24, 1996	Property Location Sketch	
Drafted By A. Turner		
N.T.S. Number	50 0 50 100 150km	Figure
File Name PROJ_LOC.DWG	 Scale 1 : 5 000 000	1



Work By	Atna Resources Ltd.
Date Drafted	Feb. 1996
Drafted By	
Date Revised	
Revised By	
N.T.S. Number	105 G/B & 9
Mining Division	Watson Lake
WOLVERINE PROJECT FOOT CLAIMS CLAIM MAP	
SCALE : AS SHOWN	
Figure	2

2.0 LIST OF CLAIMS

Claim	No.	Grant	Claim	No.	Grant	Claim	No.	Grant
	1	YB45954	FOOT	37	YB51548	FOOT	57	YB51568
	2	YB45955	FOOT	38	YB51549	FOOT	58	YB51569
FOOT	3	YB45956	FOOT	39	YB51550	FOOT	59	YB51570
FOOT	4	YB45957	FOOT	40	YB51551	FOOT	60	YB51571
FOOT	5	YB45958	FOOT	41	YB51552	FOOT	61	YB51572
FOOT	6	YB45959	FOOT	42	YB51553	FOOT	62	YB51573
FOOT	7	YB45960	FOOT	43	YB51554	FOOT	63	YB51574
FOOT	8	YB45961	FOOT	44	YB51555	FOOT	64	YB51575
FOOT	9	YB45962	FOOT	45	YB51556	FOOT	65	YB51576
FOOT	10	YB45963	FOOT	46	YB51557	FOOT	66	YB51577
FOOT	11	YB45964	FOOT	47	YB51558	FOOT	67	YB51578
FOOT	12	YB45965	FOOT	48	YB51559	FOOT	68	YB51579
FOOT	13	YB45966	FOOT	49	YB51560	FOOT	69	YB51580
FOOT	14	YB45967	FOOT	50	YB51561	FOOT	70	YB51581
FOOT	15	YB45968	FOOT	51	YB51562	FOOT	71	YB51582
FOOT	16	YB45969	FOOT	52	YB51563	FOOT	72	YB51583
FOOT	17	YB45970	FOOT	53	YB51564	FOOT	73	YB51584
FOOT	18	YB45971	FOOT	54	YB51565	FOOT	74	YB51585
FOOT	19	YB45972	FOOT	55	YB51566	FOOT	75	YB51586
FOOT	20	YB45973	FOOT	56	YB51567	FOOT	76	YB51587
FOOT	77	YB51588	FOOT	184	YB59986	FOOT	230	YB60959
FOOT	78	YB51589	FOOT	185	YB59987	FOOT	231	YB60960
FOOT	79	YB51590	FOOT	186	YB59988	FOOT	11A	YB71274
FOOT	80	YB51591	FOOT	187	YB59989	FOOT	12A	YB71275
FOOT	83	YB51592	FOOT	188	YB59990	KINK	3	YB69009
FOOT	84	YB51593	FOOT	215	YB60944	LOW	13	YB85394
FOOT	85	YB51594	FOOT	216	YB60945	LOW	14	YB85395
FOOT	86	YB51595	FOOT	217	YB60946			
FOOT	87	YB51596	FOOT	218	YB60947			
FOOT	88	YB51597	FOOT	219	YB60948			
FOOT	89	YB51598	FOOT	220	YB60949			
FOOT	90	YB51599	FOOT	221	YB60950			
FOOT	91	YB51600	FOOT	222	YB60951			
FOOT	92	YB51601	FOOT	223	YB60952			
FOOT	93	YB51602	FOOT	224	YB60953			
FOOT	94	YB51603	FOOT	225	YB60954			
FOOT	180	YB59982	FOOT	226	YB60955			
FOOT	181	YB59983	FOOT	227	YB60956			
FOOT	182	YB59984	FOOT	228	YB60957			
FOOT	183	YB59985	FOOT	229	YB60958			

3.0 DRILL HOLE SUMMARY

Hole	Location	Grid East	Grid North	UTM East	UTM North	Elevation	Depth	Azimuth	Inclination	CLAIM	\$ PER HOLE	
5-25	Wolverine	16800.0	16956.5	440153.0	6810979.1	1487.4	437.1	1	-74	KINK 3	\$38,600	
WV96-26	Wolverine	16850.0	16959.2	440196.4	6810954.1	1486.8	438.0	0	-74	KINK 3	\$38,680	
WV96-27	Wolverine	16800.0	16956.0	440153.0	6810979.1	1487.4	416.8	0	-67	KINK 3	\$36,808	
WV96-28	Wolverine	16896.6	16965.1	440238.1	6810933.8	1488.2	393.2	0	-90	KINK 3	\$34,723	
WV96-29	Wolverine	17000.0	16931.7	440306.3	6810848.3	1465.4	633.1	0	-60	KINK 3	\$55,909	
WV96-30	Wolverine	16896.6	16965.1	440238.1	6810933.8	1488.2	326.1	0	-54	KINK 3	\$28,798	
WV96-31	Wolverine	16950.6	16952.7	440276.1	6810893.3	1483.4	516.3	358	-64	KINK 3	\$45,594	
WV96-32	Wolverine	16896.6	16965.1	440238.1	6810933.8	1488.2	546.5	0	-65	KINK 3	\$48,261	
WV96-33	Sable	18030.3	16559.1	440962.2	6809971.3	1365.9	302.1	180	-75	FOOT 3	\$26,678	
WV96-34	Sable	17408.6	16643.4	440488.8	6810383.4	1379.9	295.4	178	-75	FOOT 6	\$26,087	
WV96-35	Wolverine	16699.2	17002.4	440093.9	6811073.1	1504.9	513.4	0	-60	KINK 3	\$45,338	
WV96-36	Wolverine	16609.5	17063.0	440052.3	6811173.5	1504.9	469.4	5	-80	KINK 3	\$41,453	
WV96-37	Fisher	8200.0	19000.0	434092.7	6817414.2	1670.0	380.7	180	-80	FOOT 80	\$33,620	
WV96-38	Fisher	8000.0	19100.0	433980.6	6817607.7	1670.0	508.7	180	-80	FOOT 80	\$44,923	
WV96-39	Wolverine	16698.8	16999.3	440091.4	6811071.1	1503.9	463.3	0	-70	KINK 3	\$40,914	
WV96-40	Wolverine	16550.2	17073.7	440008.5	6811214.3	1505.2	457.2	0	-85	FOOT 10	\$40,375	
WV96-41	Fisher	8800.0	18750.0	434456.5	6816875.5	1670.0	539.5	180	-80	FOOT 75	\$47,643	
WV96-42	Fisher	8400.0	19000.0	434259.8	6817304.3	1670.0	392.9	180	-80	FOOT 78	\$34,697	
WV96-43	Wolverine	16550.2	17070.5	440006.8	6811211.8	1505.2	404.5	180	-83	FOOT 10	\$35,721	
WV96-44	Sable	17231.9	16845.0	440452.0	6810649.4	1427.0	343.5	180	-70	FOOT 8	\$30,334	
WV96-45	Fisher	8600.0	19010.0	434432.3	6817202.7	1680.0	405.1	180	-80	FOOT 78	\$35,774	
WV96-46	Sable	17560.1	16659.0	440624.6	6810313.2	1370.7	323.7	0	-66	FOOT 6	\$28,586	
WV96-47	Lake	11800.0	17650.0	436357.8	6814307.5	1260.0	391.4	180	-70	FOOT 48	\$34,565	
WV96-48	Wolverine	16500.0	17097.0	439979.9	6811261.8	1506.0	400.8	180	-85	FOOT 10	\$35,395	
WV96-49	Wolverine	16800.0	16955.0	440152.4	6810978.3	1487.4	472.4	0	-60	KINK 3	\$41,718	
WV96-50	Wolverine	16500.0	17097.0	439979.9	6811261.8	1506.0	397.5	180	-63	FOOT 10	\$35,103	
6-51	Fisher	8800.0	19000.0	434593.9	6817084.4	1700.0	481.3	180	-80	FOOT 76	\$42,504	
WV96-52	Wolverine	16451.7	17091.0	439935.7	6811283.7	1492.3	405.1	180	-89	FOOT 10	\$35,774	
WV96-53	Wolverine	16451.7	17091.0	439935.7	6811283.7	1492.3	341.1	180	-70	FOOT 10	\$30,123	
WV96-54	Wolverine	16826.5	16704.0	440036.2	6810754.3	1377.0	218.3	0	-65	KINK 3	\$19,278	
WV96-55	Fisher	10000.0	18600.0	435376.4	6816090.6	1680.0	546.8	0	-80	FOOT 69	\$48,288	
WV96-56	Lynx	16400.0	17095.0	439895.3	6811315.1	1492.0	370.9	0	-90	FOOT 10	\$32,754	
WV96-57	Wolverine	16550.0	16787.0	439851.3	6810975.4	1396.0	158.5	0	-65	FOOT 10	\$13,997	
WV96-58	Wolverine	16450.0	16842.0	439798.0	6811076.3	1394.0	168.2	0	-73	FOOT 10	\$14,854	
WV96-59	Wolverine	16650.0	16744.0	439911.2	6810884.5	1390.0	116.4	0	-90	KINK 3	\$10,282	
WV96-60	Lynx	16303.0	16963.5	439741.7	6811258.2	1400.0	288.3	0	-70	FOOT 12	\$25,460	
WV96-61	Lynx	16349.0	16937.1	439765.8	6811211.2	1396.0	244.1	0	-74	FOOT 12	\$21,556	
WV96-62	Lynx	16250.0	16922.0	439674.9	6811253.1	1402.0	211.8	0	-78	FOOT 12	\$18,704	
WV96-63	Lynx	16350.0	16867.0	439728.2	6811152.1	1395.0	184.4	0	-90	FOOT 12	\$16,284	
WV96-64	Lynx	16250.0	17117.0	439782.1	6811415.9	1463.0	405.1	0	-86.5	FOOT 12	\$35,774	
WV96-65	Lynx	16250.0	16922.0	439674.9	6811253.1	1401.0	208.2	180	-70	FOOT 12	\$18,386	
WV96-66	Lynx	16300.0	16890.0	439699.0	6811198.8	1397.0	175.9	0	-75	FOOT 12	\$15,534	
WV96-67	Lynx	16300.0	16895.0	439701.8	6811203.0	1398.0	142.3	180	-75	FOOT 12	\$12,567	
WV96-68	Lynx	16400.0	16915.0	439796.3	6811164.7	1390.0	177.7	180	-85	FOOT 12	\$15,693	
WV96-69	Lynx	16350.0	17110.0	439861.8	6811355.1	1477.0	378.9	0	-86	FOOT 12	\$33,461	
WV96-70	Lynx	16400.0	16850.0	439760.6	6811110.4	1395.0	139.3	0	-75	FOOT 12	\$12,302	
WV96-71	Lynx	16250.0	17025.0	439731.5	6811339.1	1416.0	257.3	0	-86	FOOT 12	\$22,722	
WV96-72	Lynx	16350.0	16862.0	439725.4	6811148.0	1394.0	137.7	0	-50	FOOT 12	\$12,160	
TOTAL METERAGE							16926.2					
TOTAL COSTS							\$ 1,494,754					
TOTAL COST PER METER							\$88.31					

4.0 DATES OF WORK

Hole	Location	Claim	Start Date	End Date
96-25	Wolverine	KINK 3	04-Apr-96	18-Apr-96
WV96-26	Wolverine	KINK 3	18-Apr-96	03-May-96
WV96-27	Wolverine	KINK 3	21-Apr-96	10-May-96
WV96-28	Wolverine	KINK 3	05-May-96	18-May-96
WV96-29	Wolverine	KINK 3	11-May-96	17-May-96
WV96-30	Wolverine	KINK 3	18-May-96	30-May-96
WV96-31	Wolverine	KINK 3	31-May-96	16-Jun-96
WV96-32	Wolverine	KINK 3	31-May-96	21-Jun-96
WV96-33	Sable	FOOT 3	01-Jun-96	06-Jun-96
WV96-34	Sable	FOOT 6	07-Jul-96	10-Jul-96
WV96-35	Wolverine	KINK 3	16-Jun-96	07-Jul-96
WV96-36	Wolverine	KINK 3	23-Jun-96	10-Jul-96
WV96-37	Fisher	FOOT 80	25-Jun-96	30-Jun-96
WV96-38	Fisher	FOOT 80	01-Jul-96	08-Jul-96
WV96-39	Wolverine	KINK 3	08-Jul-96	23-Jul-96
WV96-40	Wolverine	FOOT 10	10-Jul-96	23-Jul-96
WV96-41	Fisher	FOOT 75	11-Jul-96	17-Jul-96
WV96-42	Fisher	FOOT 78	19-Jul-96	27-Jul-96
WV96-43	Wolverine	FOOT 10	25-Jul-96	04-Aug-96
WV96-44	Sable	FOOT 8	26-Jul-96	01-Aug-96
WV96-45	Fisher	FOOT 78	29-Jul-96	06-Aug-96
WV96-46	Sable	FOOT 6	05-Aug-96	10-Aug-96
WV96-47	Lake	FOOT 48	06-Aug-96	08-Aug-96
WV96-48	Wolverine	FOOT 10	04-Aug-96	12-Aug-96
96-49	Wolverine	KINK 3	14-Aug-96	20-Aug-96
WV96-50	Wolverine	FOOT 10	12-Aug-96	17-Aug-96
WV96-51	Fisher	FOOT 76	17-Aug-96	28-Aug-96
WV96-52	Wolverine	FOOT 10	18-Aug-96	25-Aug-96
WV96-53	Wolverine	FOOT 10	26-Aug-96	01-Sep-96
WV96-54	Wolverine	KINK 3	27-Aug-96	02-Sep-96
WV96-55	Fisher	FOOT 69	27-Aug-96	08-Aug-96
WV96-56	Lynx	FOOT 10	31-Aug-96	07-Sep-96
WV96-57	Wolverine	FOOT 10	03-Sep-96	10-Sep-96
WV96-58	Wolverine	FOOT 10	06-Sep-96	12-Sep-96
WV96-59	Wolverine	KINK 3	06-Sep-96	10-Sep-96
WV96-60	Lynx	FOOT 12	11-Sep-96	17-Sep-96
WV96-61	Lynx	FOOT 12	11-Sep-96	17-Sep-96
WV96-62	Lynx	FOOT 12	18-Sep-96	22-Sep-96
WV96-63	Lynx	FOOT 12	18-Sep-96	22-Sep-96
WV96-64	Lynx	FOOT 12	20-Sep-96	27-Sep-96
WV96-65	Lynx	FOOT 12	22-Sep-96	27-Sep-96
WV96-66	Lynx	FOOT 12	23-Sep-96	28-Sep-96
WV96-67	Lynx	FOOT 12	25-Sep-96	01-Oct-96
WV96-68	Lynx	FOOT 12	27-Sep-96	30-Sep-96
WV96-69	Lynx	FOOT 12	29-Sep-96	10-Oct-96
WV96-70	Lynx	FOOT 12	02-Oct-96	08-Oct-96
WV96-71	Lynx	FOOT 12	02-Oct-96	07-Oct-96
WV96-72	Lynx	FOOT 12	05-Oct-96	07-Oct-96

5.0 STATEMENT OF EXPENDITURES

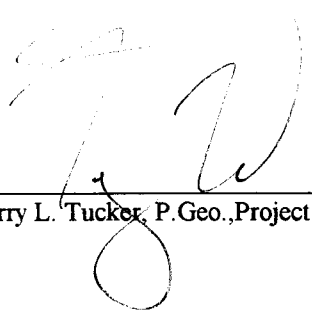
I, Terry L. Tucker as agent for Westmin Resources Limited, #904-1055 Dunsmuir Street, Vancouver, B.C. do solemnly declare that a program consisting of diamond drilling was carried out on the FOOT 1 - 20, 37 - 80, 83 - 94, 180 - 188, 215 - 231, 11A - 12A, KINK 3, LOW 13 - 14 claims between 4 April 1996 and 10 October 1996.

The following expenses were incurred during the course of the diamond drilling which occurred between 1996.

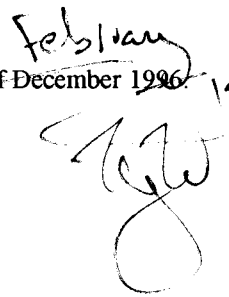
Diamond Drilling	\$ 1,494,754
Total	\$ 1,494,754

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at Vancouver in the Province of British Columbia this 1st day of February ~~1996~~ 1997



Terry L. Tucker, P. Geo., Project Geologist



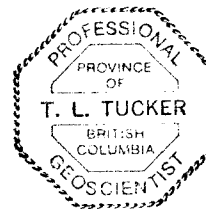
6.0 STATEMENT OF QUALIFICATIONS

I, Terry L. Tucker, of the City of North Vancouver, in the Province of British Columbia, do hereby certify that:

1. I am registered as a professional geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia, residing at 1541 Mahon Avenue, North Vancouver, British Columbia, V7M 2S6 with a business address at #904 - 1055 Dunsmuir Street, P.O. Box 49066, The Bentall Centre, Vancouver, British Columbia, V7X 1C4.
2. I am a graduate of the University of Alberta, Edmonton, Alberta (1989) with a Bachelor of Science degree specialisation in Geology).
3. I have been a practising geologist in Canada, Australia, the United States and Papua New Guinea since 1987.
4. I directly performed or supervised the work which is described in this report.

DATED this 6 day of ^{February 1997} ~~December 1996~~ at Vancouver, British Columbia.


Terry L. Tucker, P. Geo.
Project Geologist

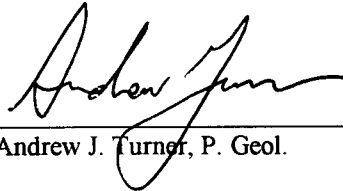


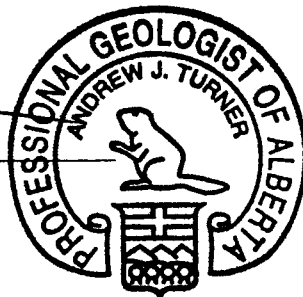
6.0 STATEMENT OF QUALIFICATIONS

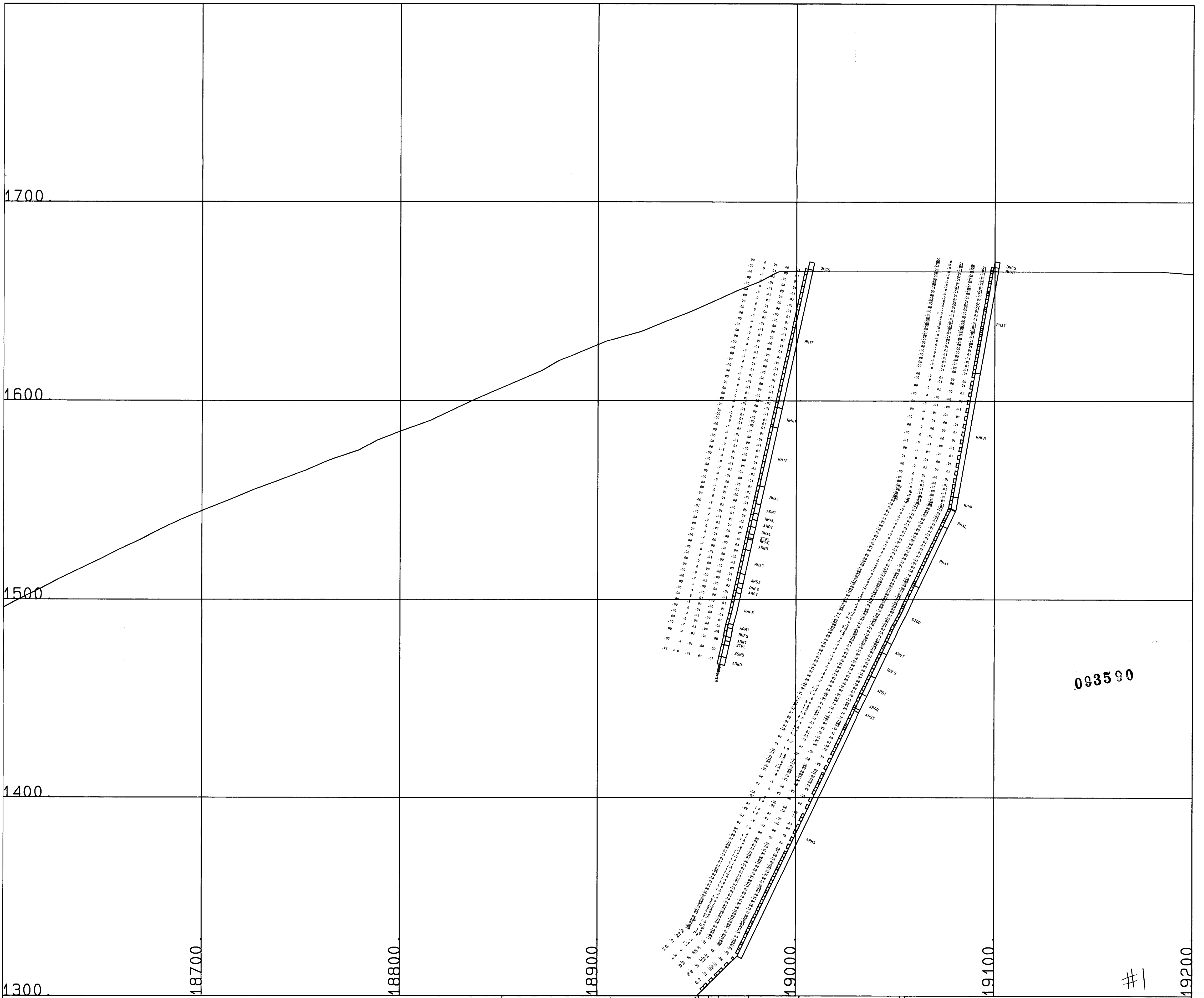
I, Andrew J. Turner of #302, 1144 St. George's Avenue, North Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist in the temporary employ of Westmin Resources Limited with offices at #904-1055 Dunsmuir Street, Vancouver, British Columbia.
2. THAT I have practiced my profession with various mining companies in Alberta, Ontario, the Northwest Territories, and the Yukon Territory for seven years.
3. THAT I am a graduate of the University of Alberta (1989) and hold a Honors Bachelor of Science Degree in Geology.
4. THAT I have been registered as a Professional Geologist with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA) since 1994.
5. THAT I am a member of the Prospectors and Developers Association of Canada and the British Columbia and Yukon Chamber of Mines.
6. THAT this report is based upon property work that I have either personally conducted or supervised between April 13 and October 1, 1996.
7. THAT I have no direct interest in the property described herein, nor do I expect to receive any such interest.

DATED at Vancouver, British Columbia this 13th day of December, 1996.

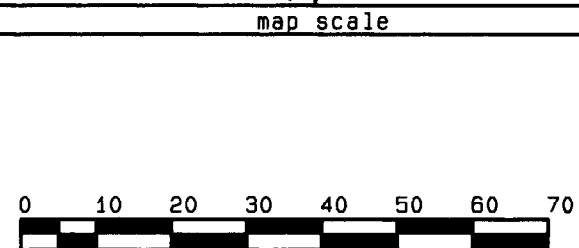
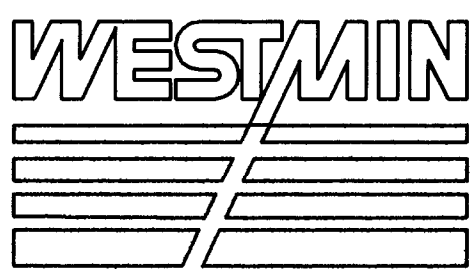

Andrew J. Turner, P. Geol.





093590

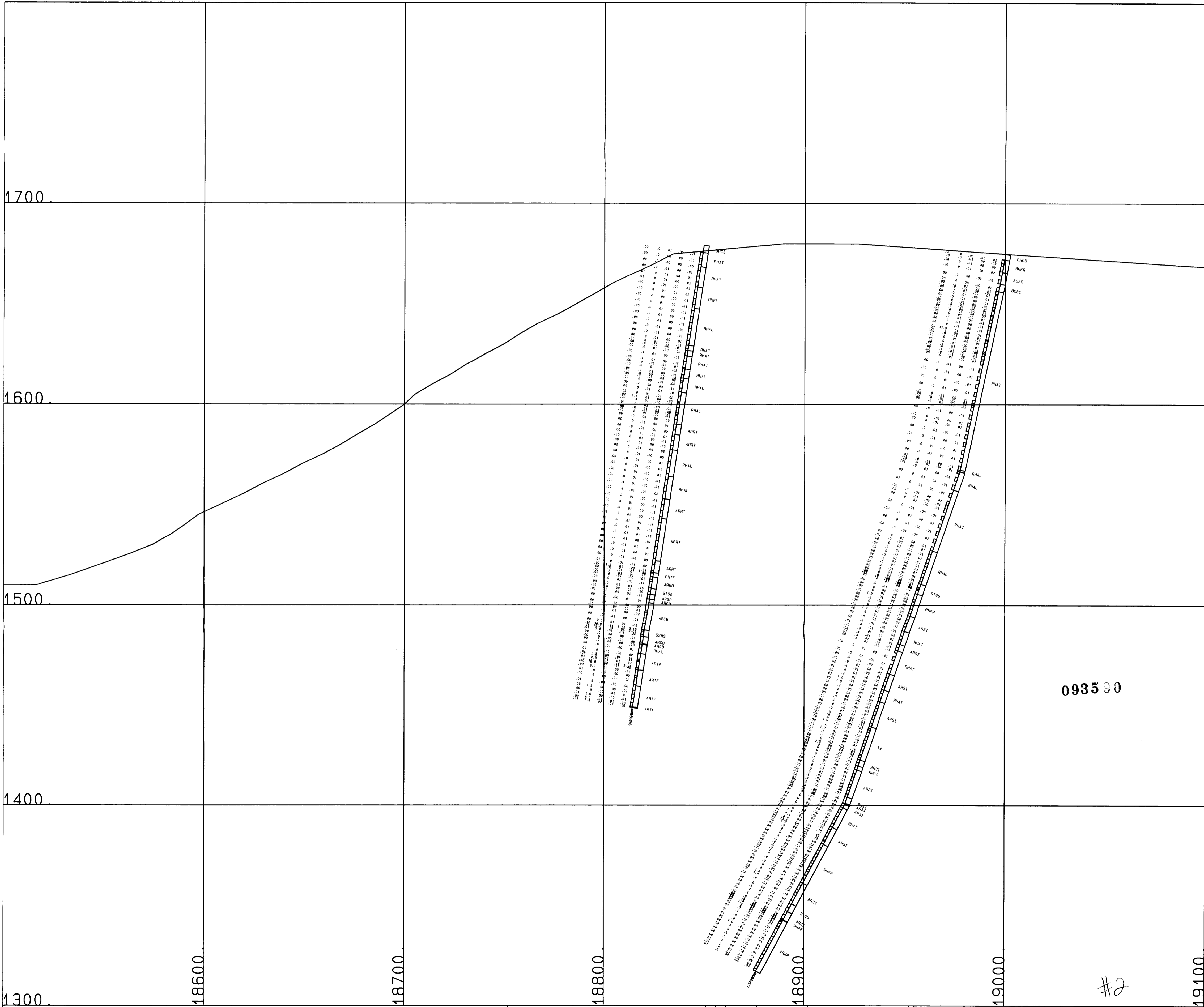
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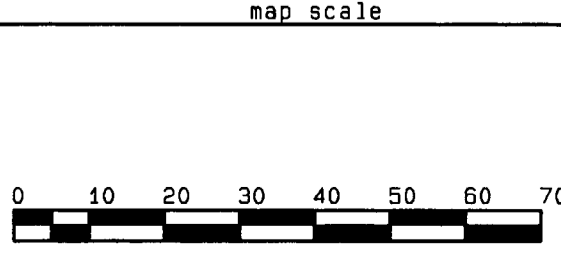
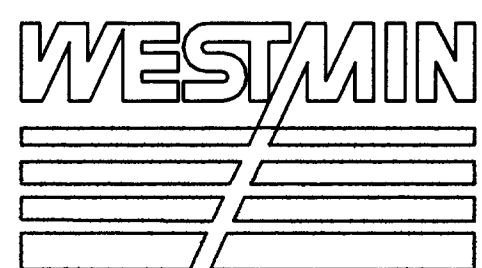
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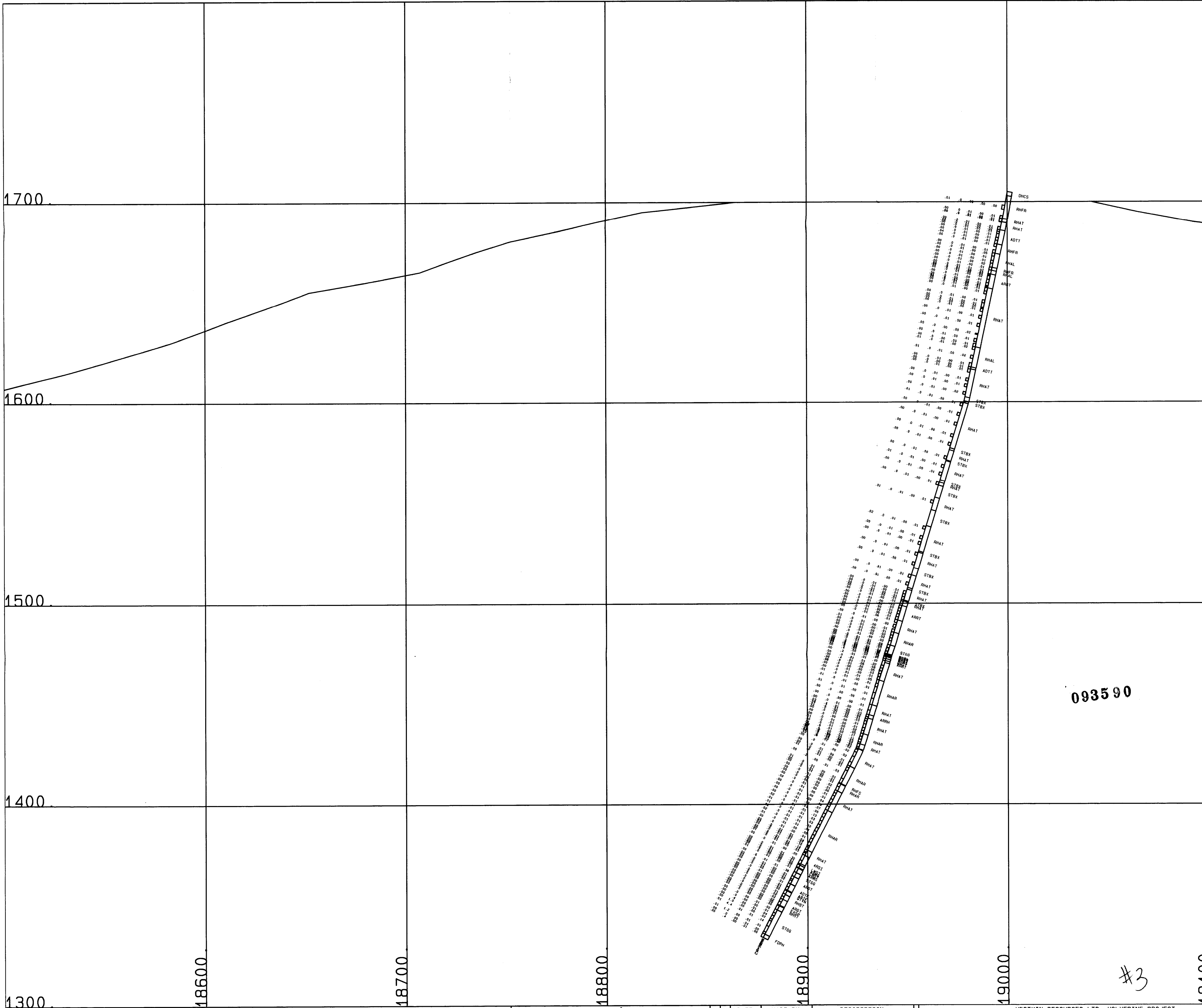
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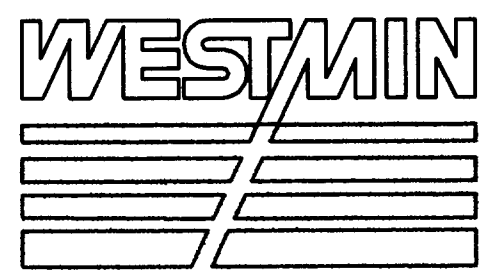
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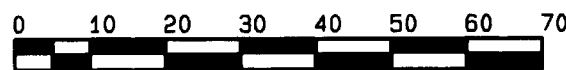


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map scale



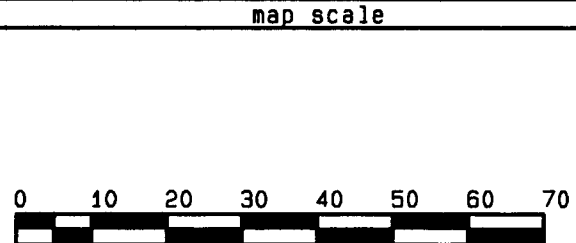
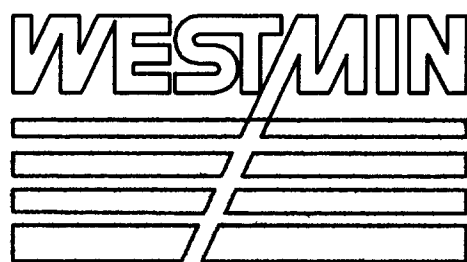
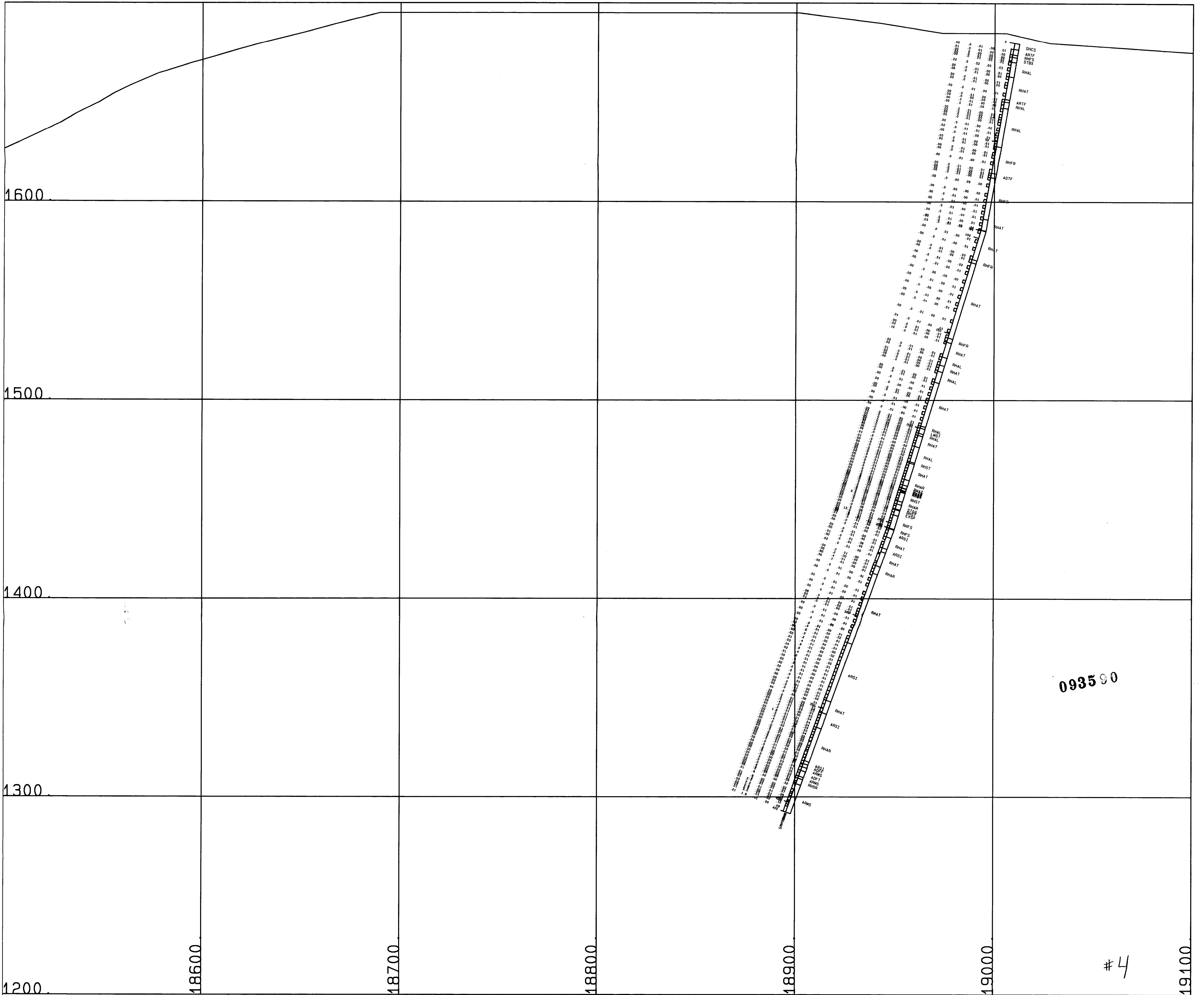
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WESTMIN RESOURCES LTD. WOLVERINE PROJECT

SECTION 8400 E - GEOLOGY

AU AG CU PB ZN - WOLVERINE PRO

MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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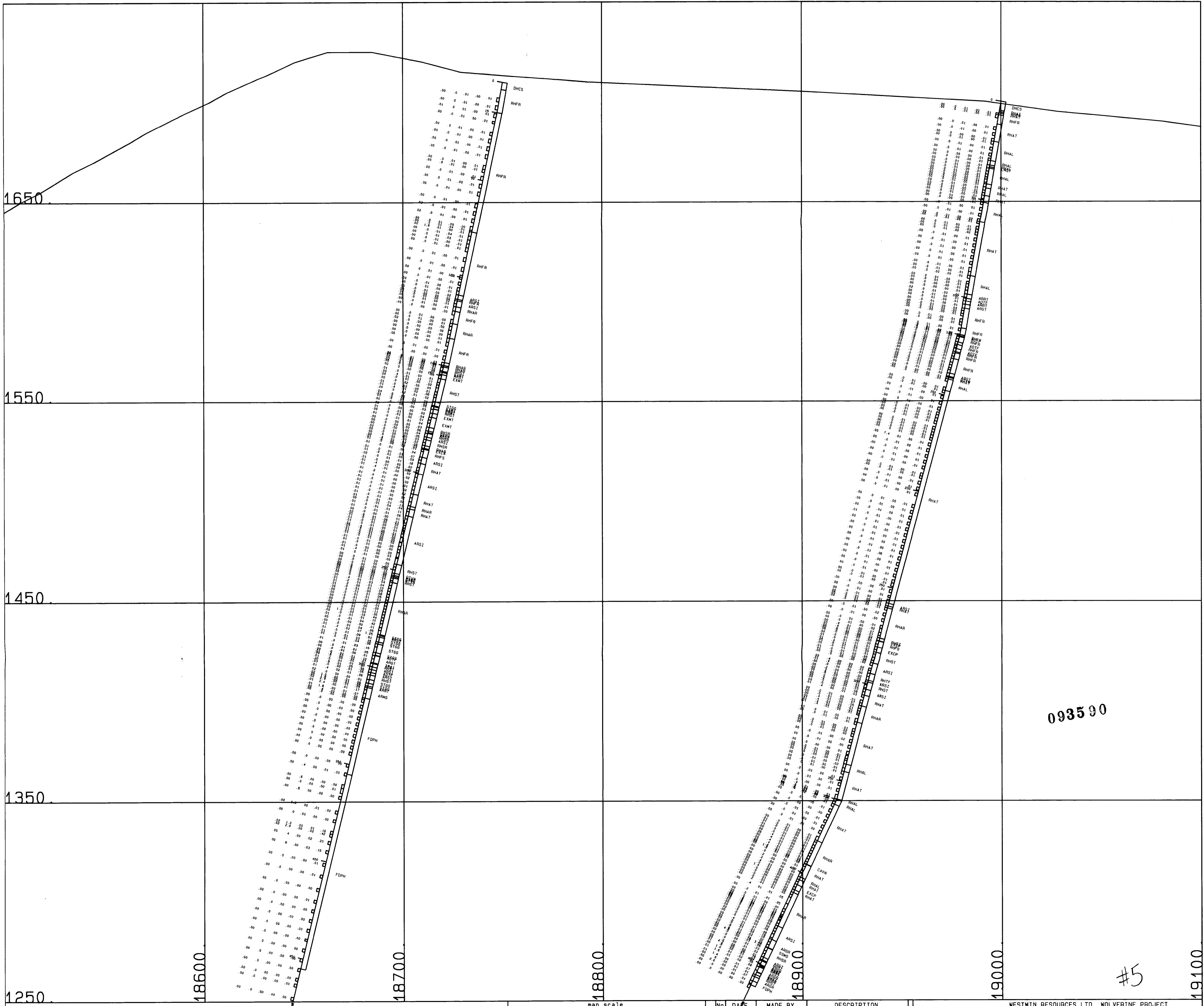
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SECTION 8600 E - GEOLOGY
AU AG CU PB ZN - WOLVERINE PRO

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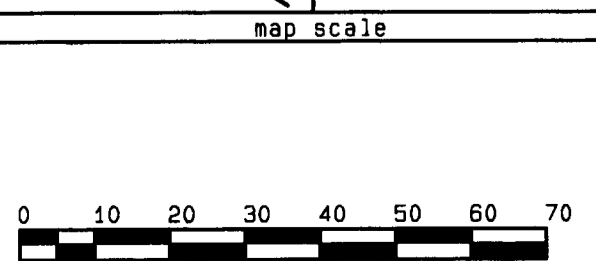
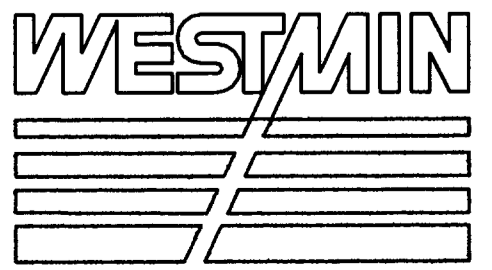
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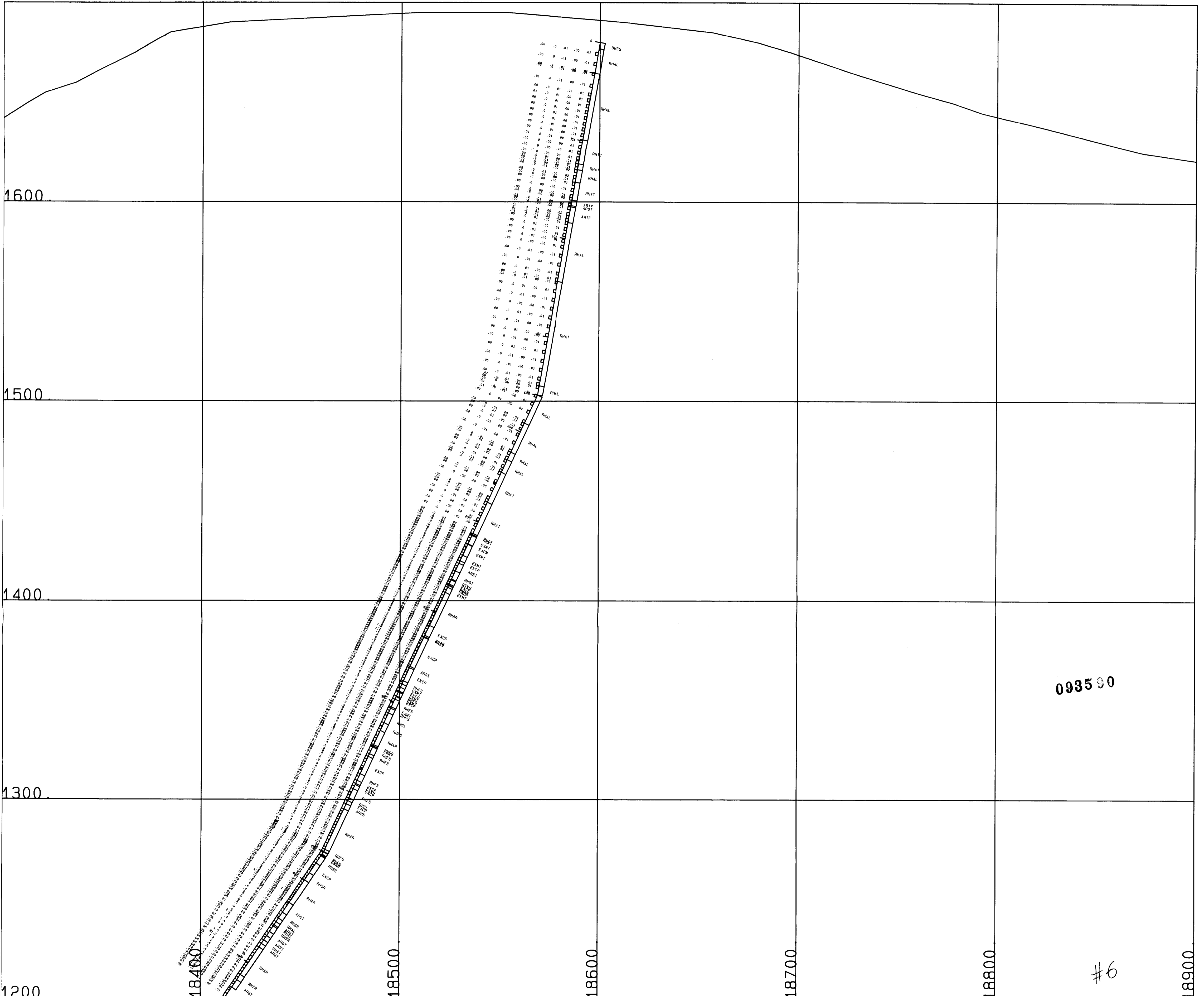
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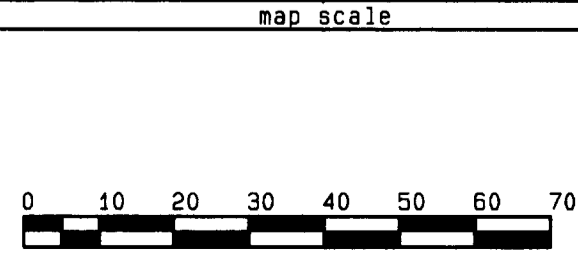
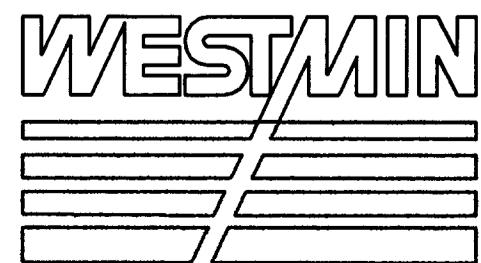
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MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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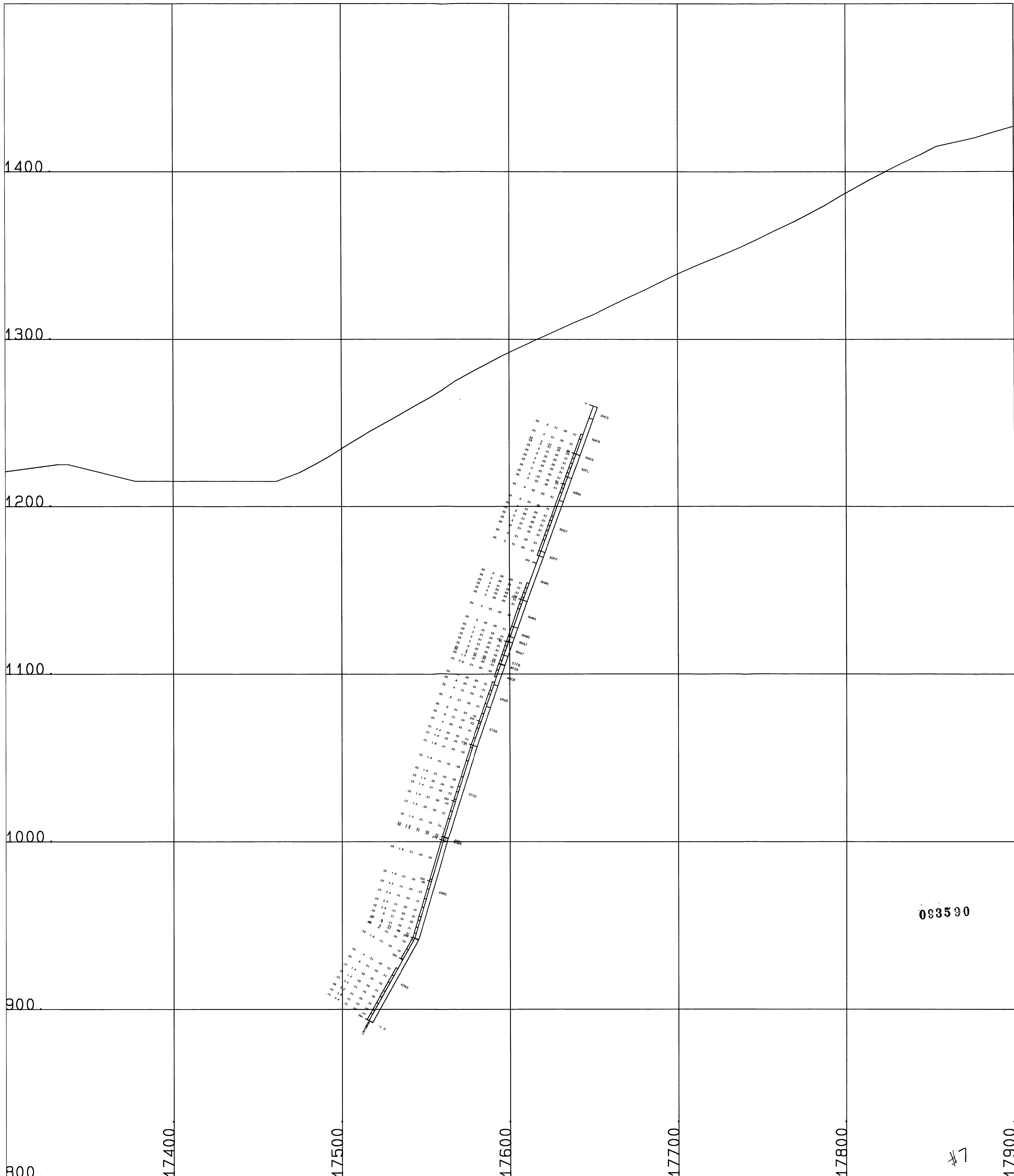
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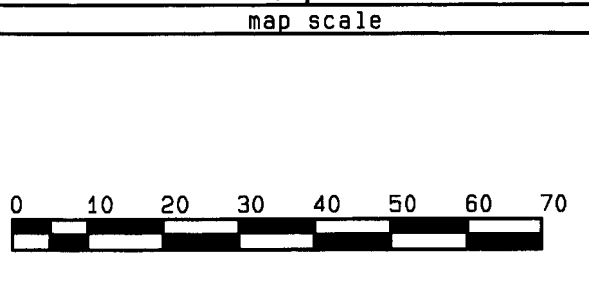
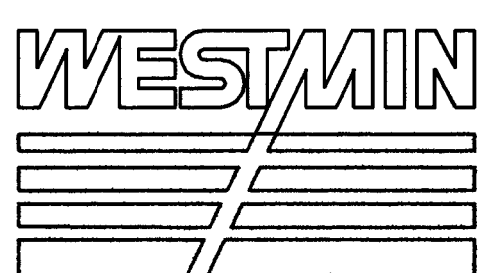
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AU AG CU PB ZN - WOLVERINE PRO		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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#7



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AU AG CU PB ZN - WOLVERINE PRO		
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1300.

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1100.

1000.

900.

16700.

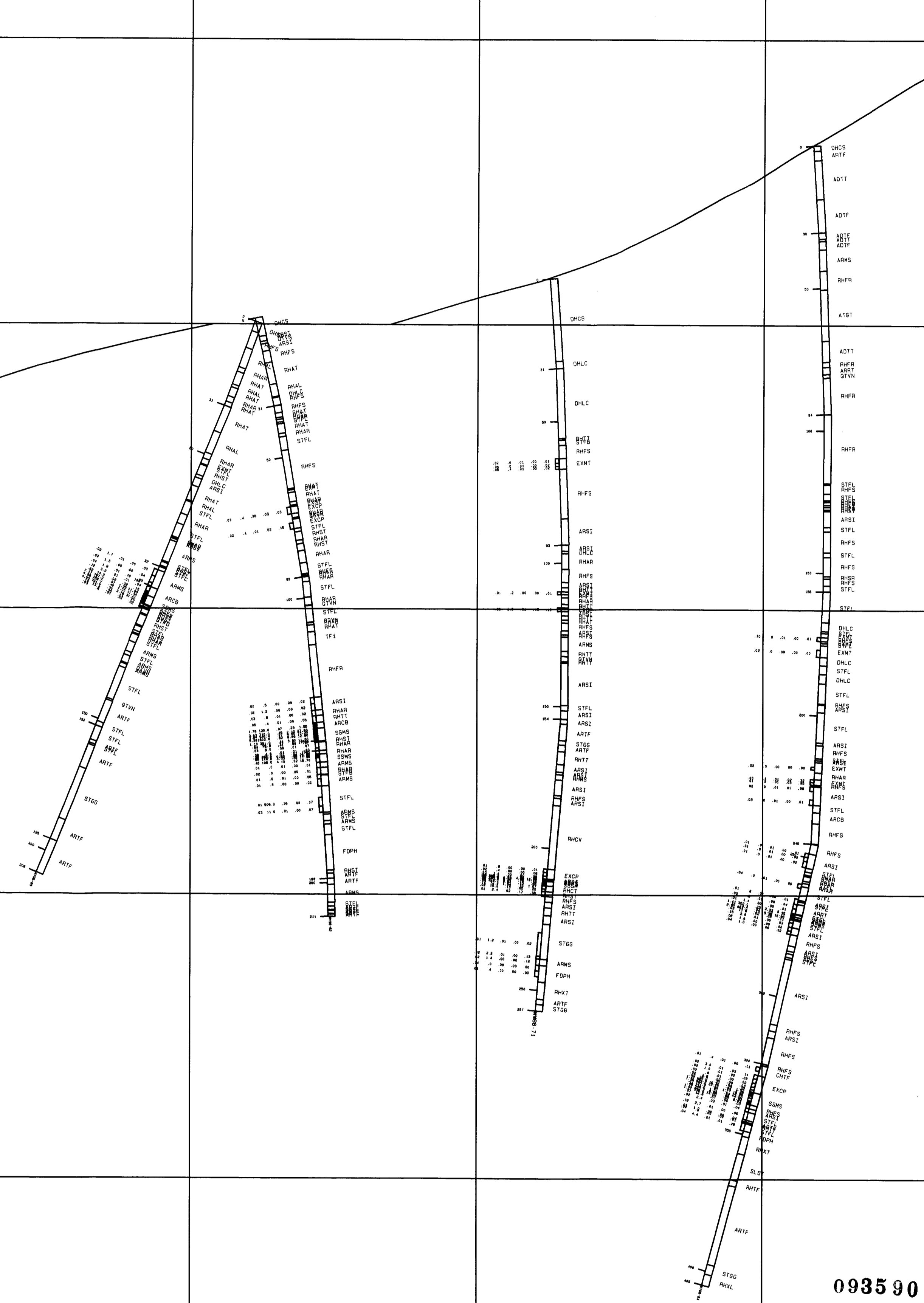
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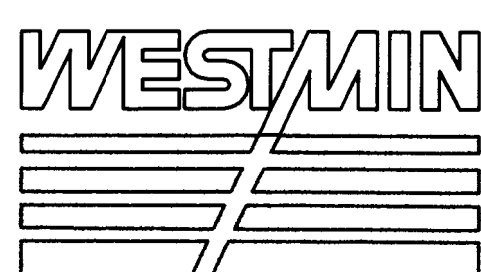
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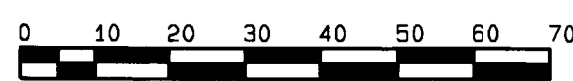


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mab scale



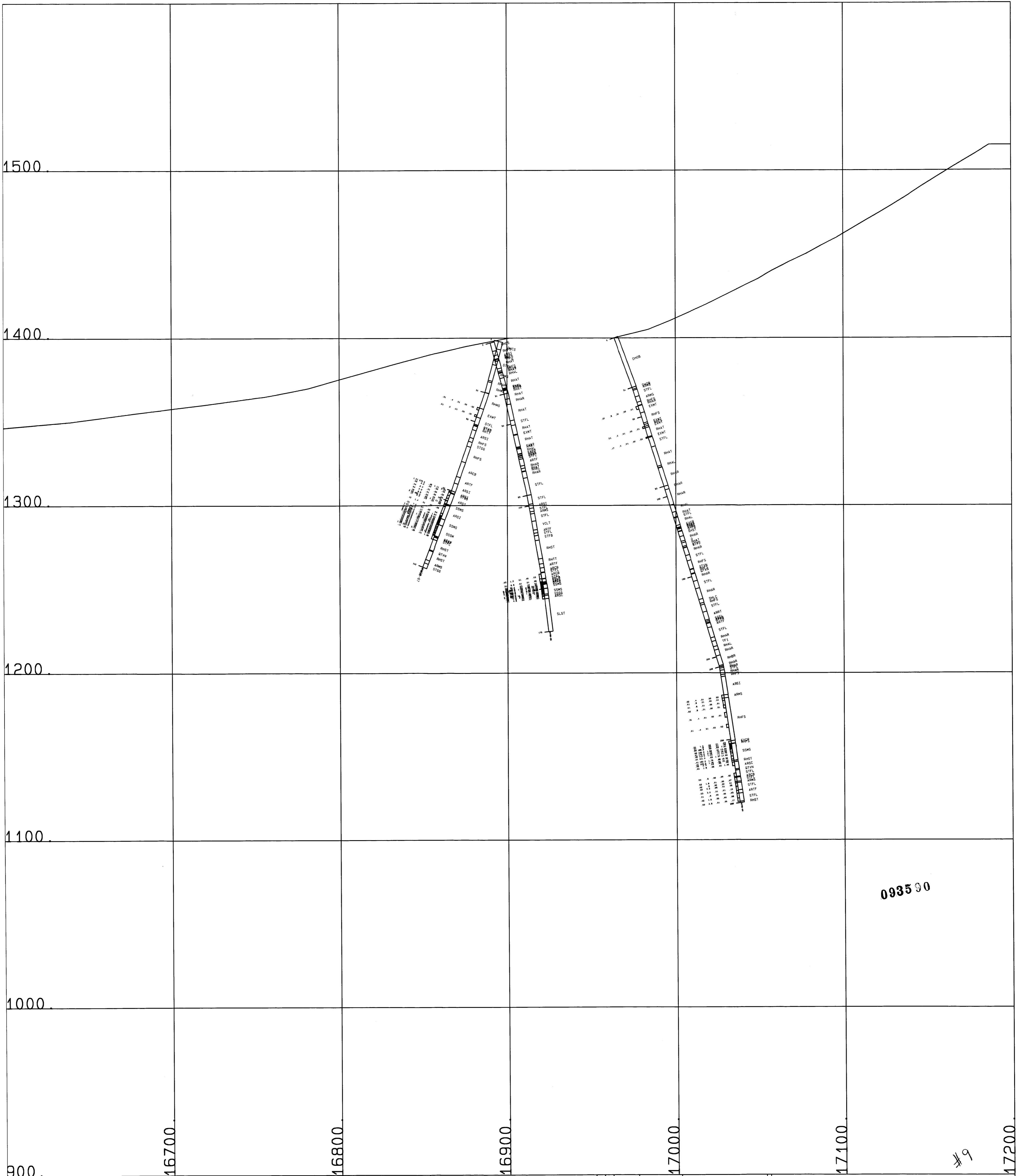
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WESTMIN RESOURCES LTD. WOLVERINE PROJECT

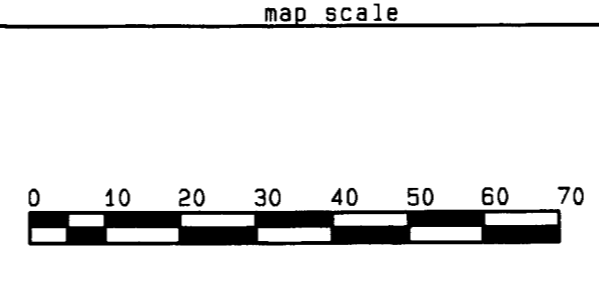
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AU AG CU PB ZN - WOLVERINE PRO

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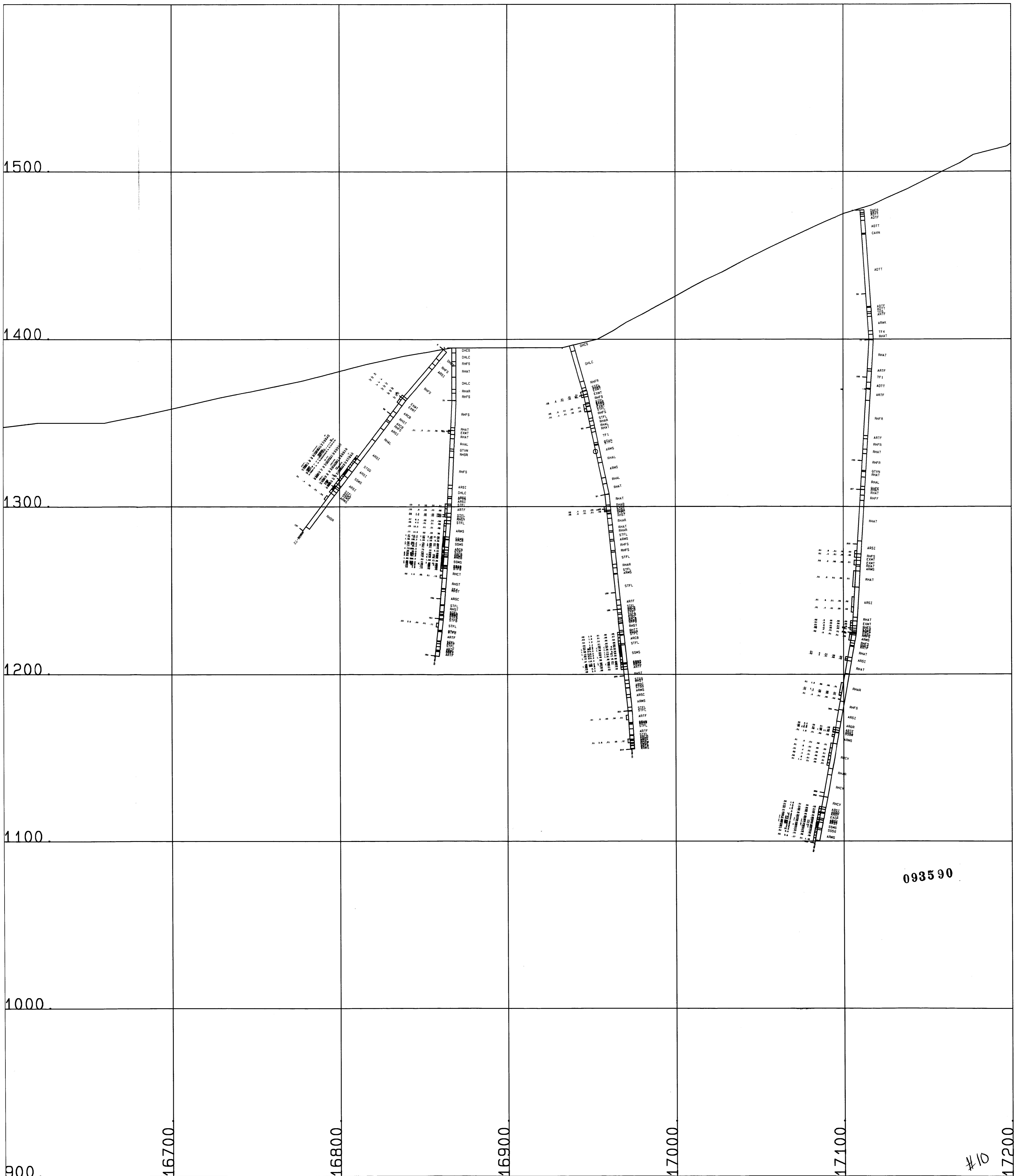
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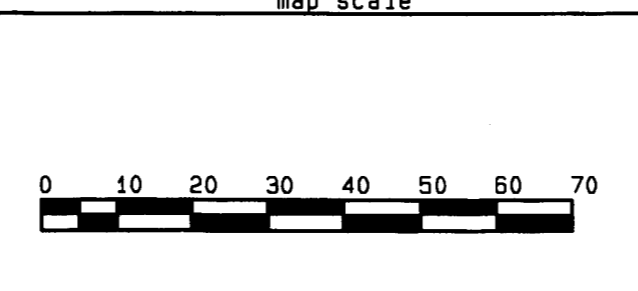
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12-03-96	TLT		

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AU AG CU PB ZN - WOLVERINE PRO		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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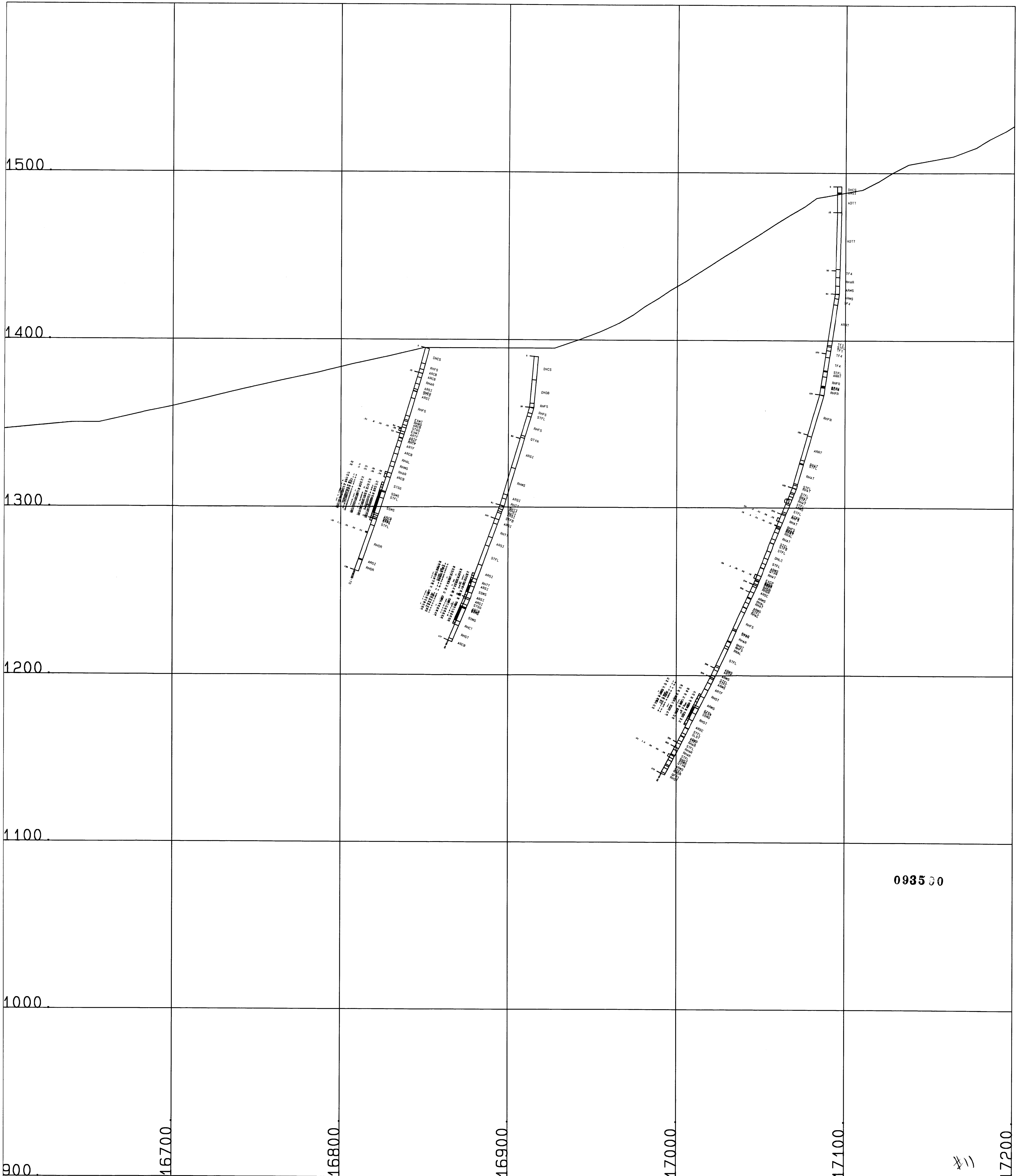
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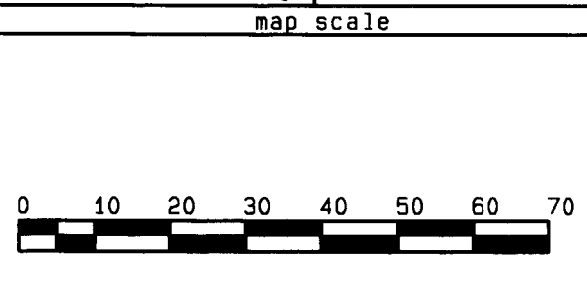
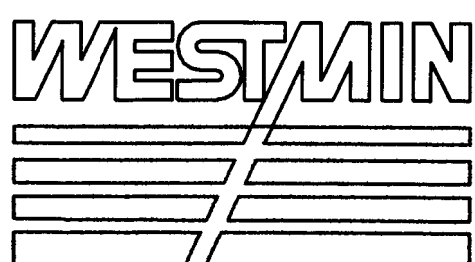
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MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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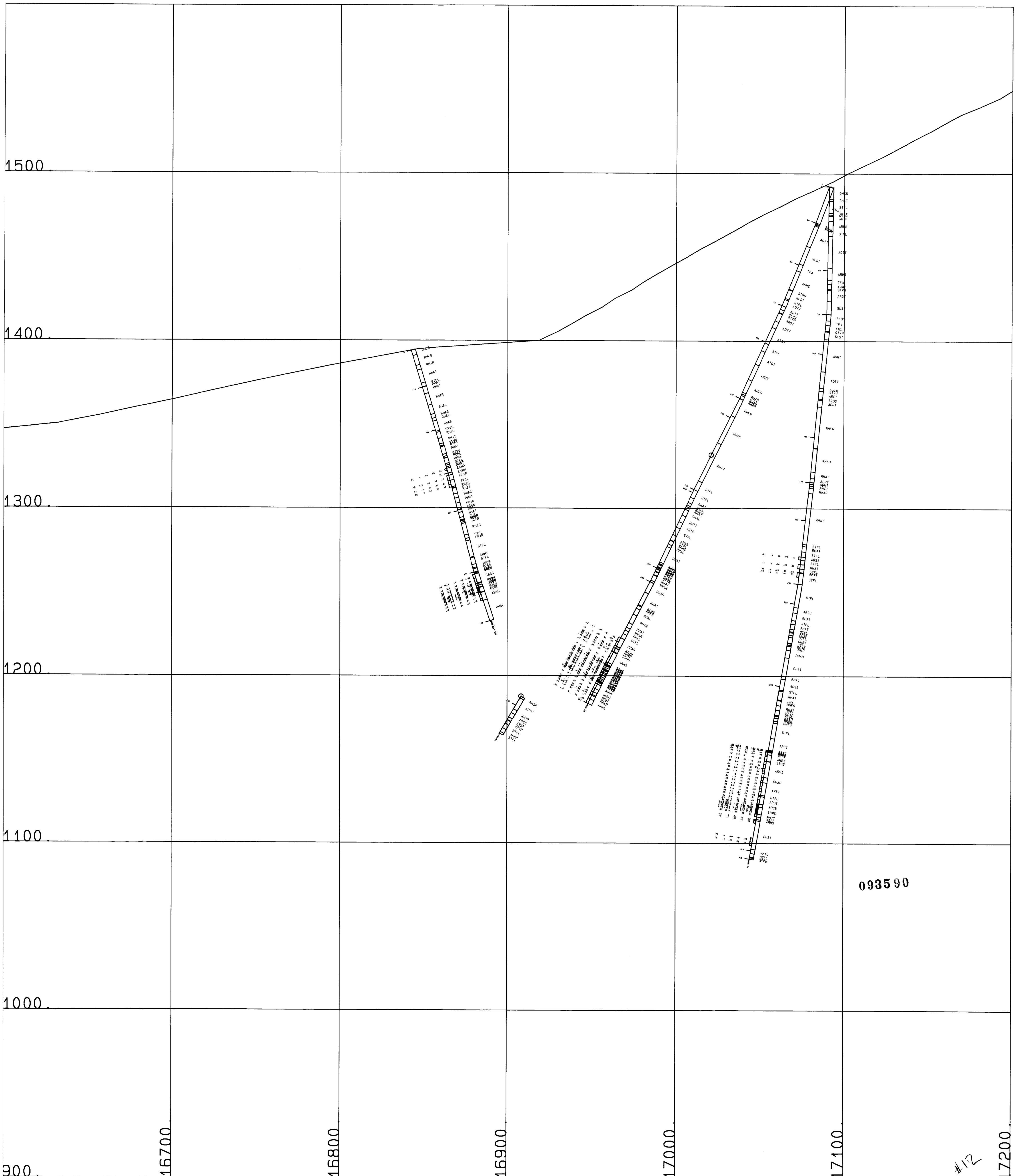
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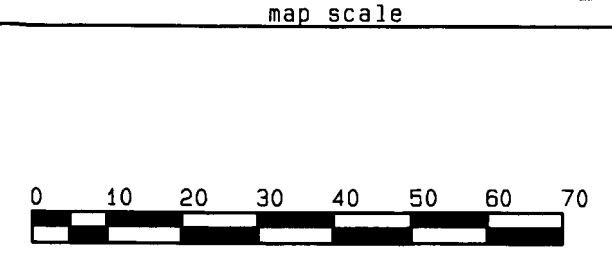
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AU AG CU PB ZN - WOLVERINE PRO		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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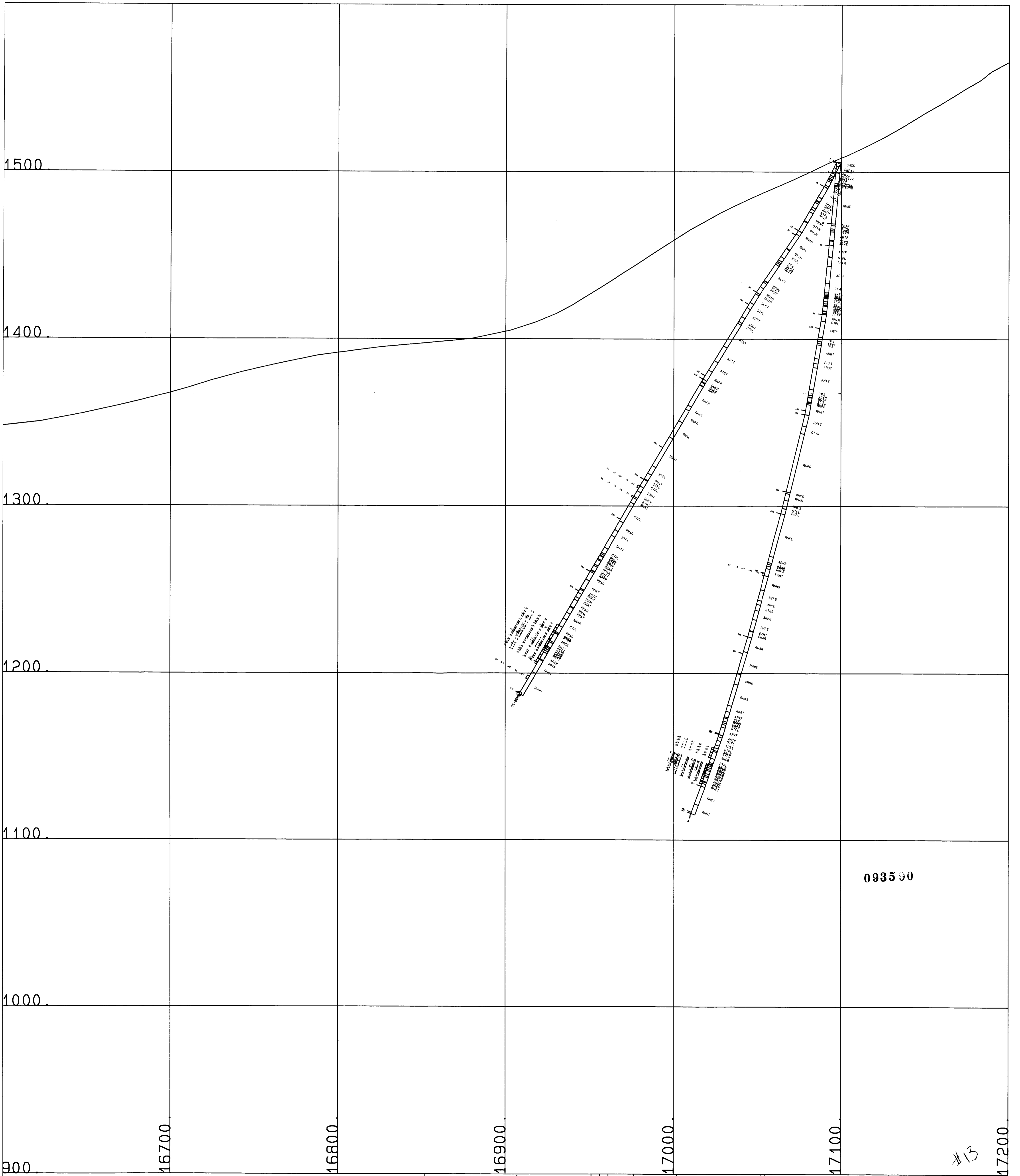


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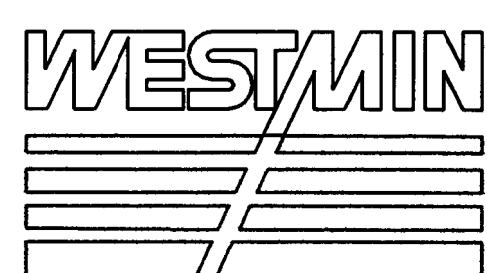
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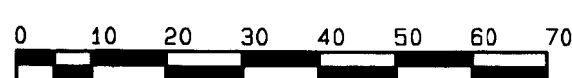


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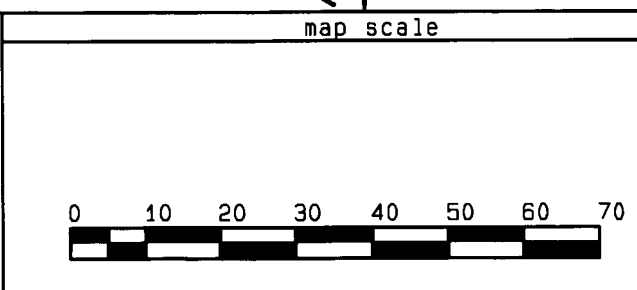
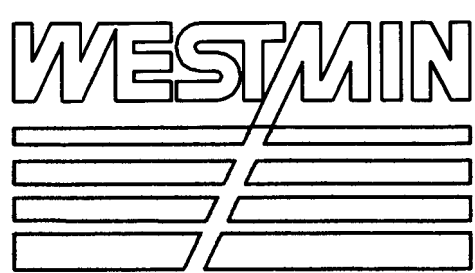
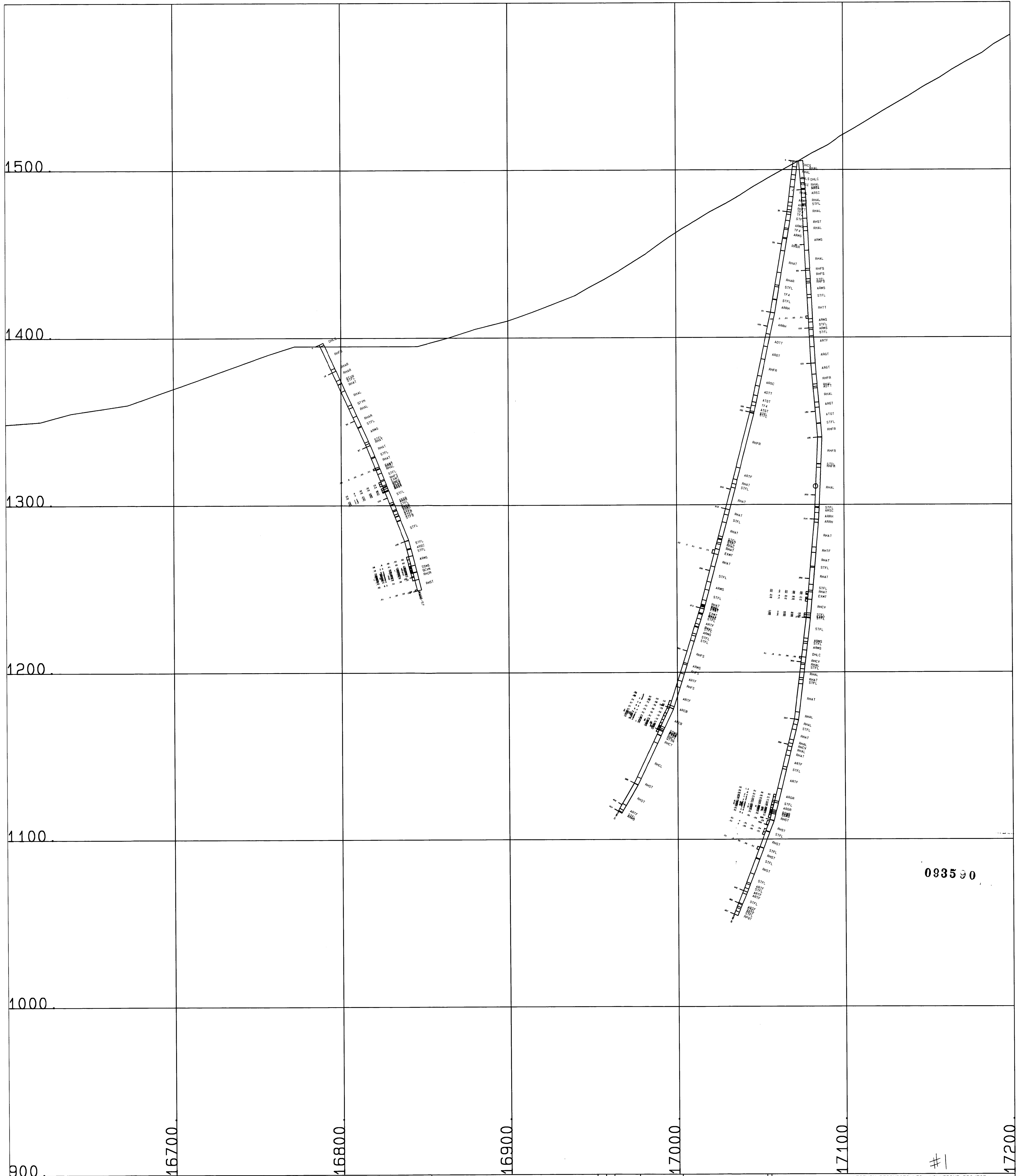
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WESTMIN RESOURCES LTD. WOLVERINE PROJECT		
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AU AG CU PB ZN - WOLVERINE PRO		
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WESTMIN RESOURCES LTD. WOLVERINE PROJECT		
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AU AG CU PB ZN - WOLVERINE PRO		
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1300

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1100

1000

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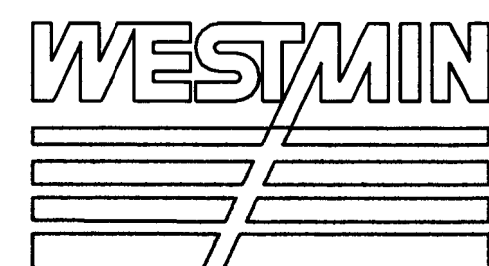
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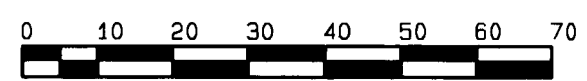
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map scale

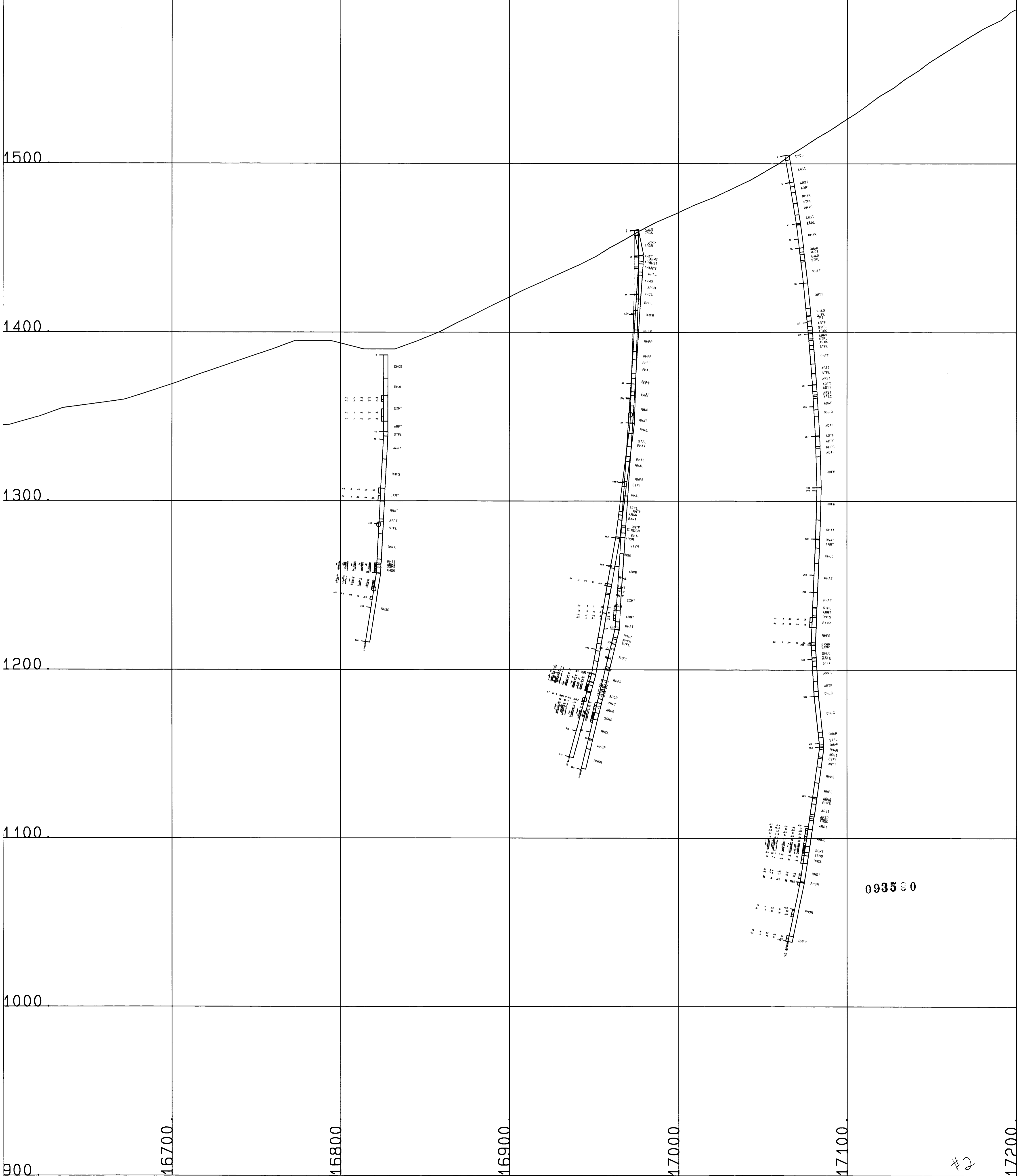


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MAP INDEX NUMBER	SCALE	DRAWING NUMBER
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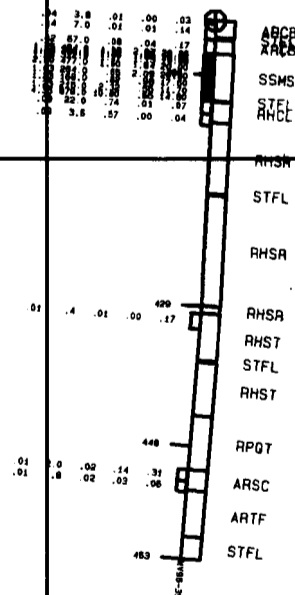
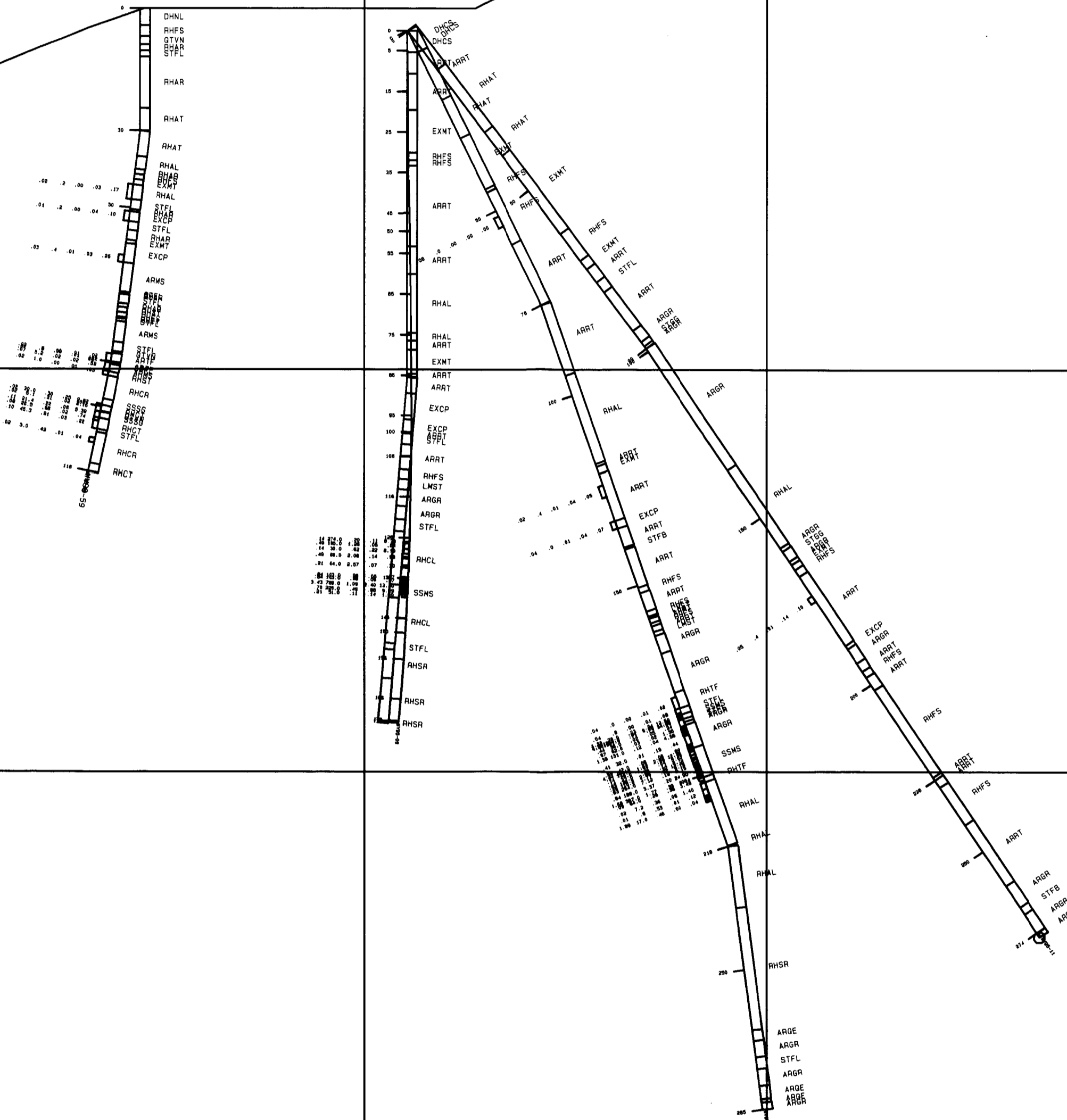
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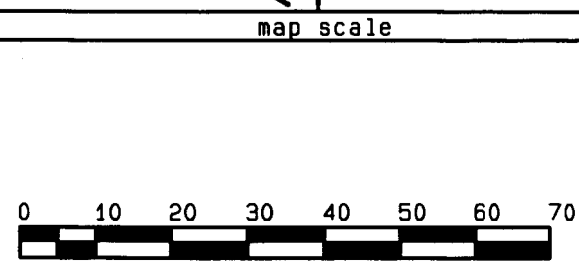
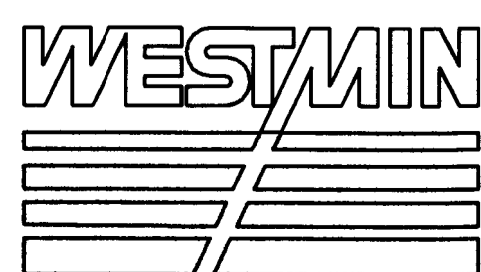
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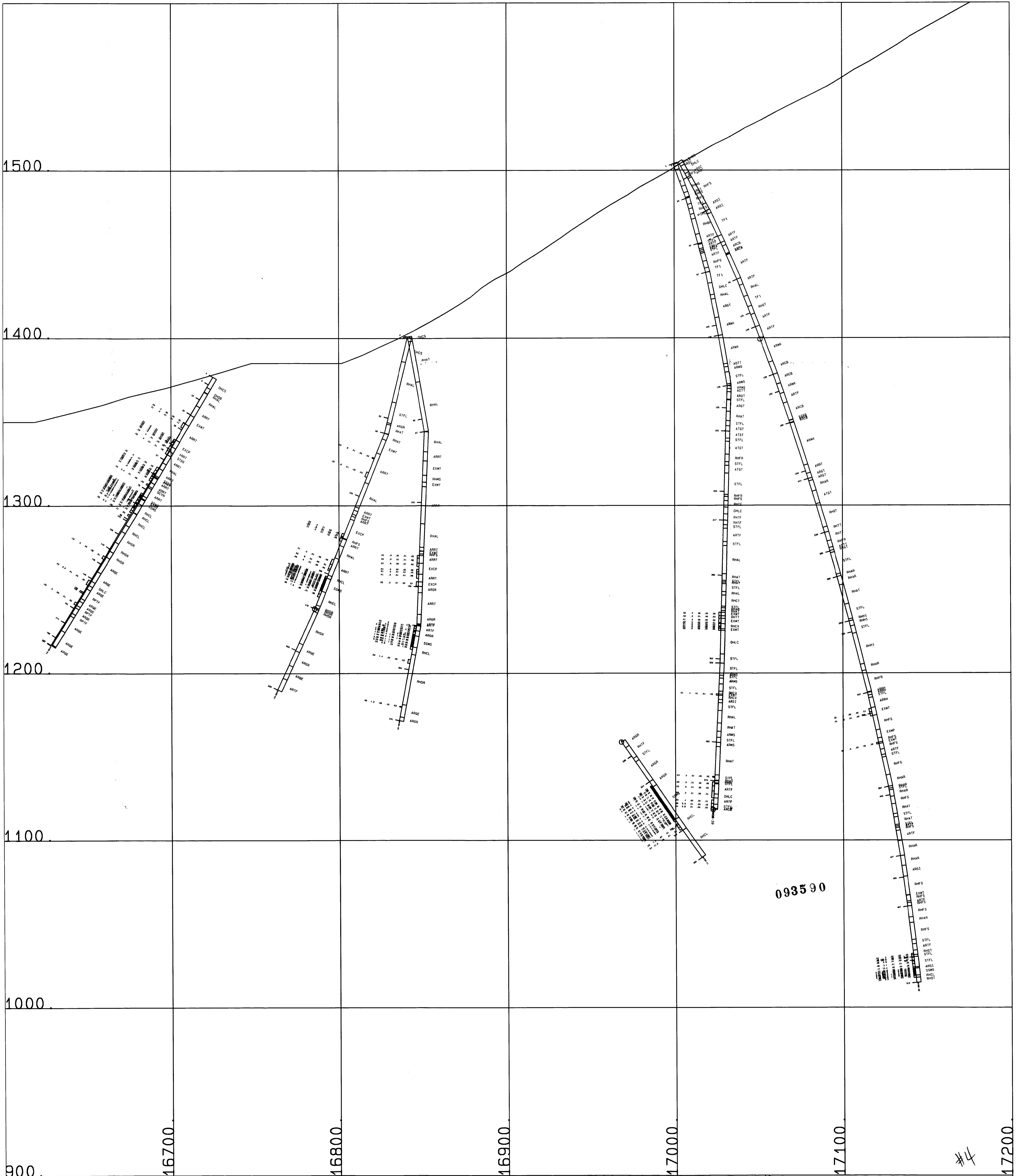
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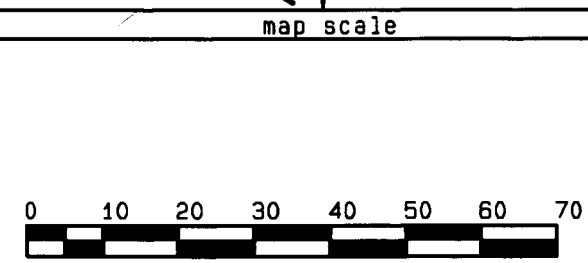
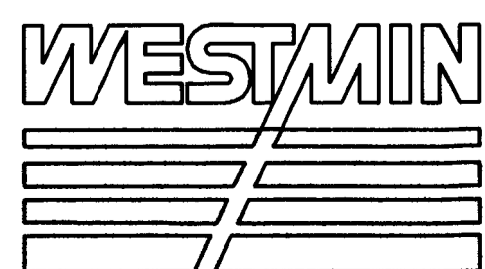
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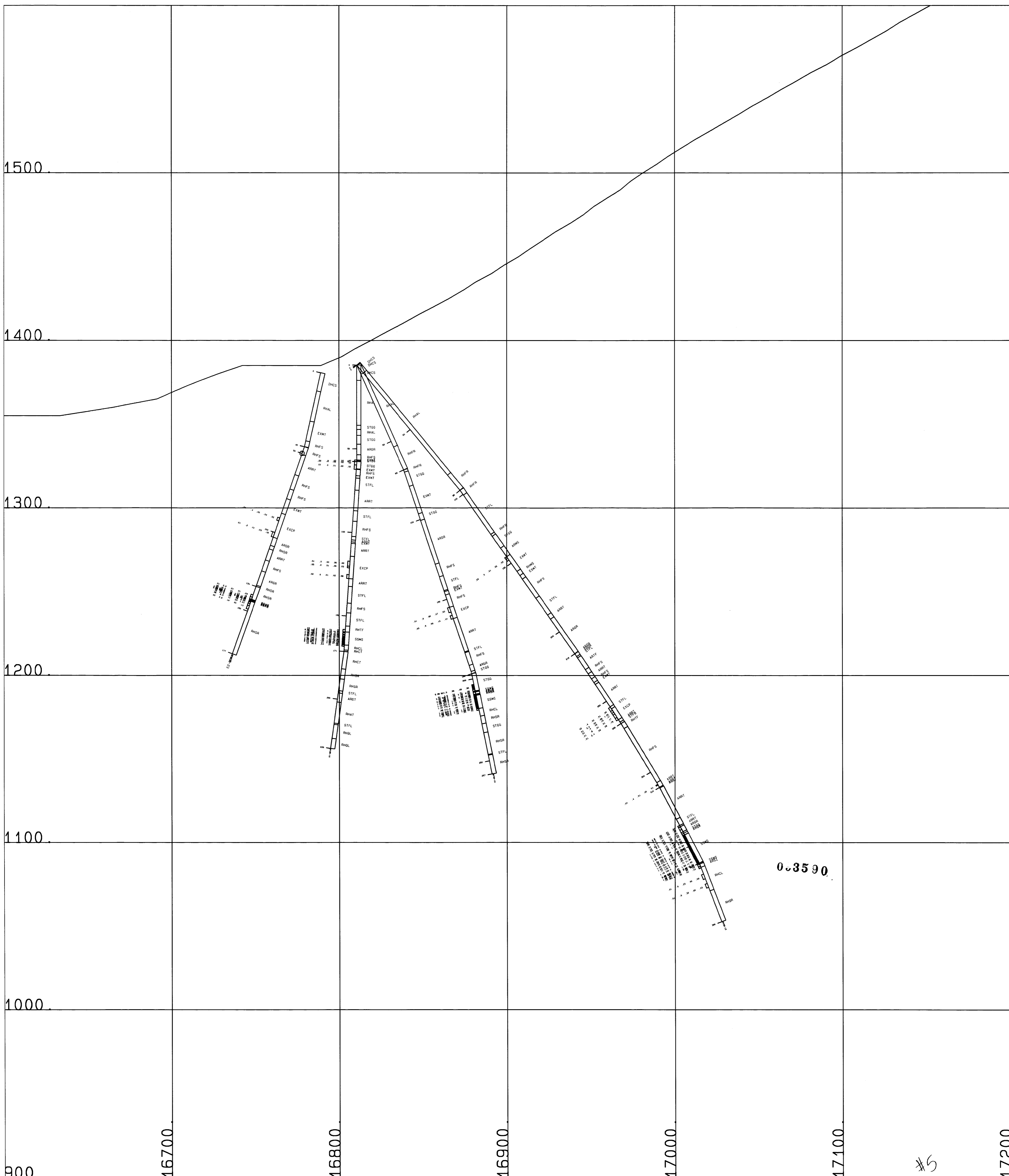
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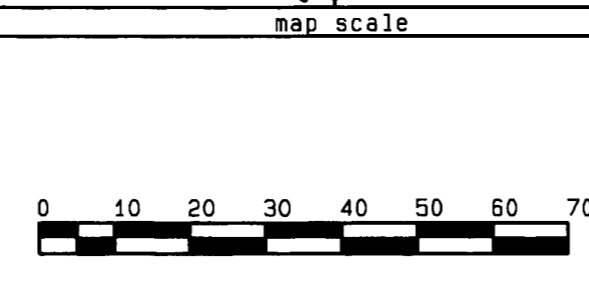
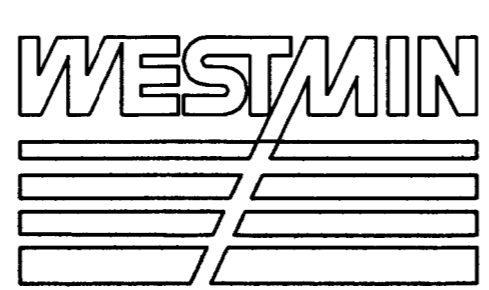
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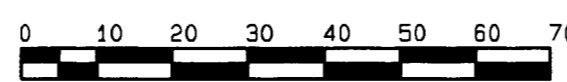
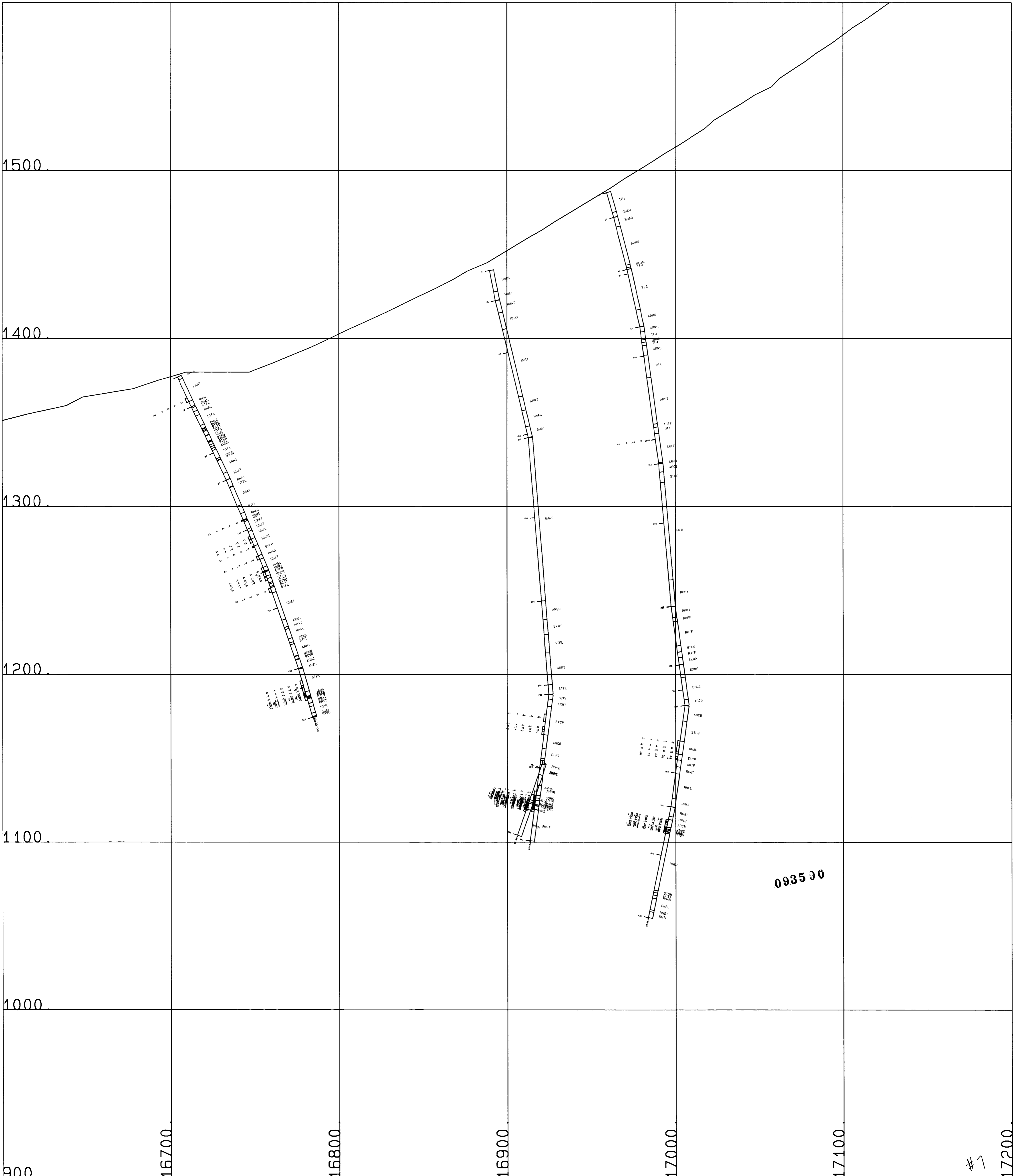


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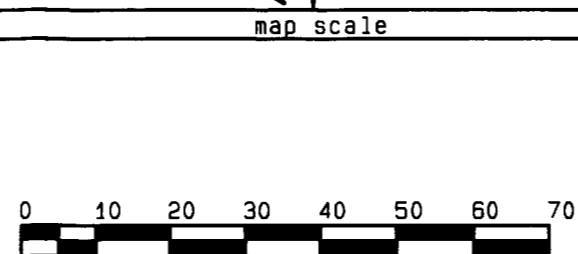
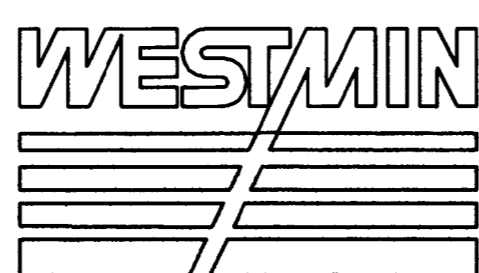
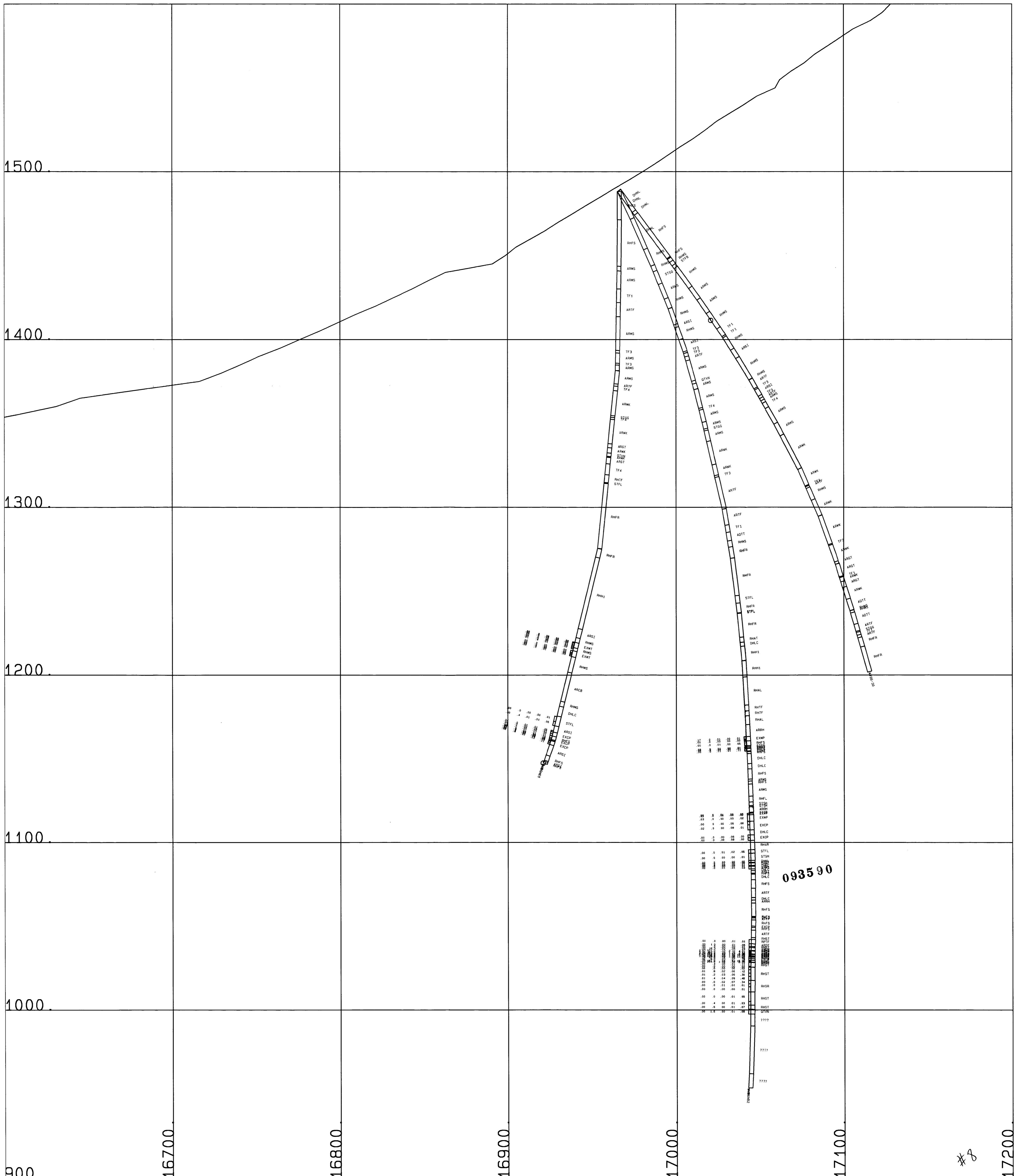


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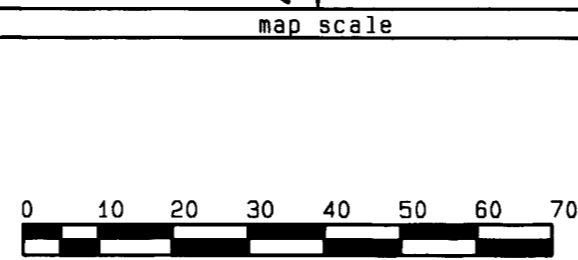
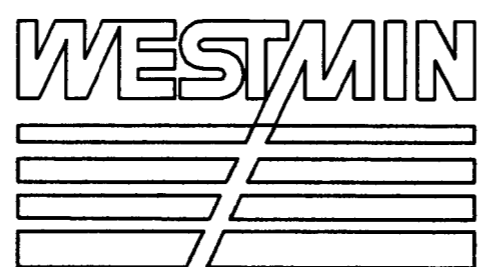
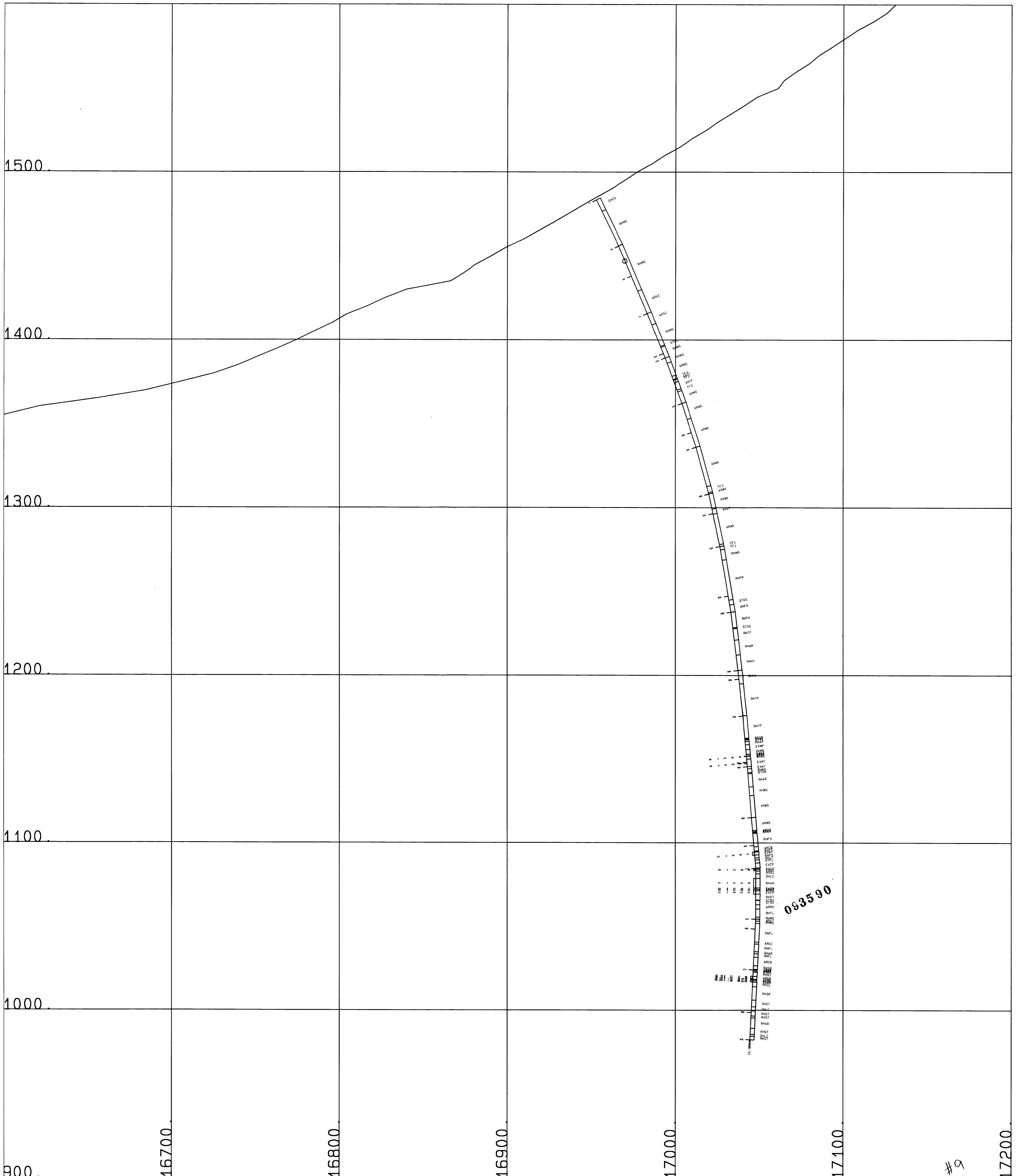


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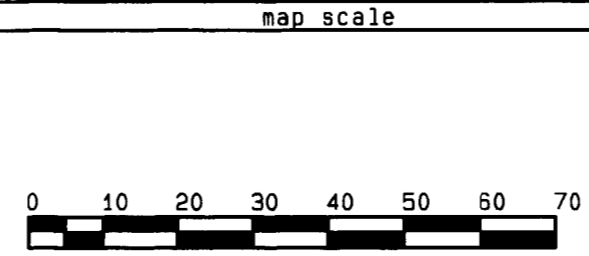
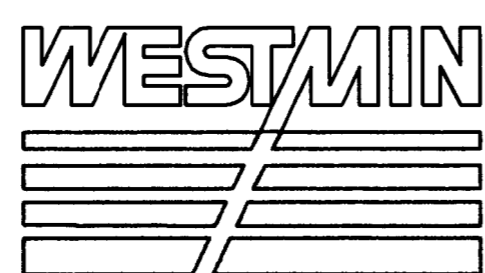
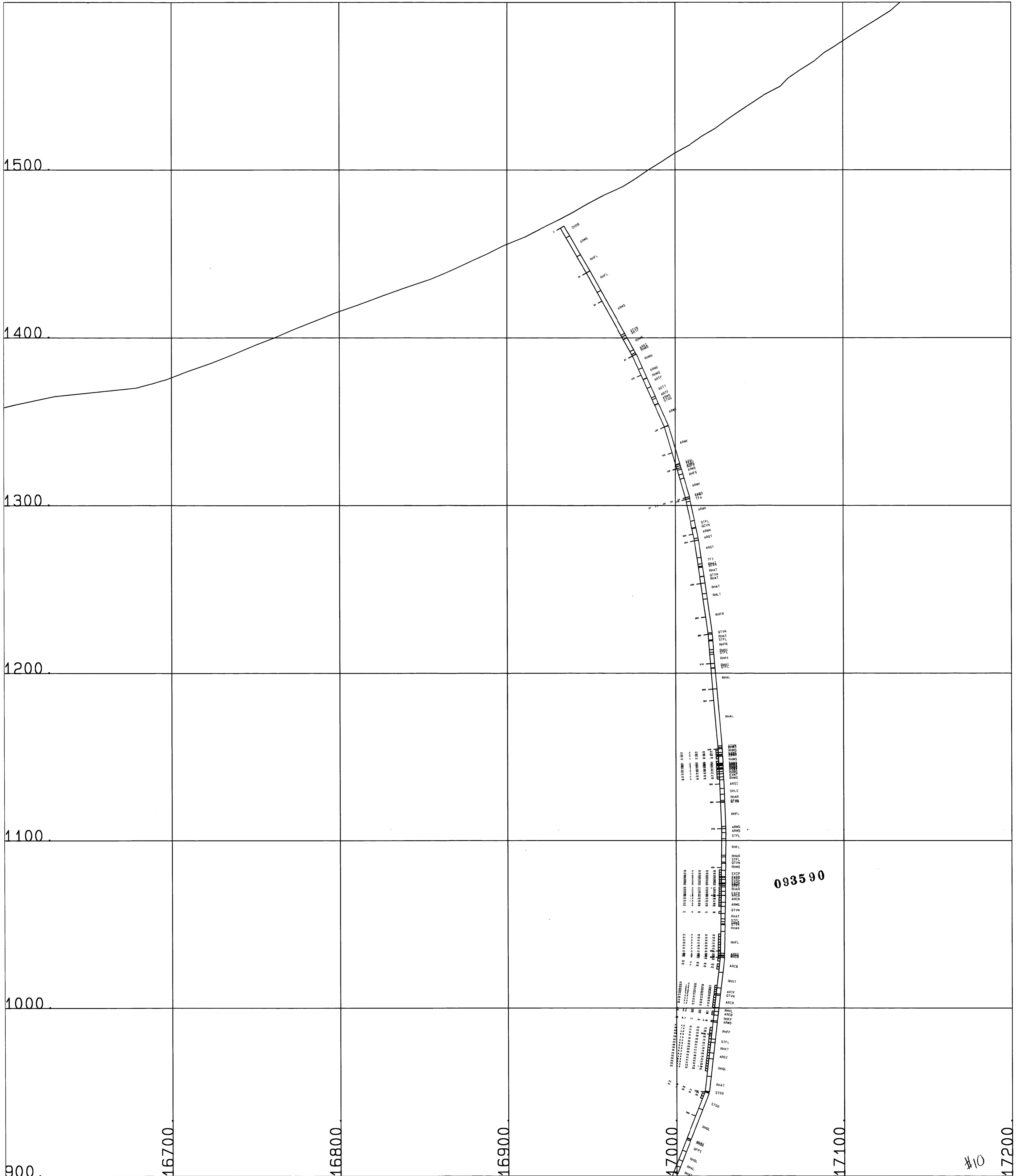


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WESTMIN RESOURCES LTD. WOLVERINE PROJECT		
SECTION 16950 E - GEOLOGY		
AU AG CU PB ZN - WOLVERINE PRO		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1: 1000.M	24

#9

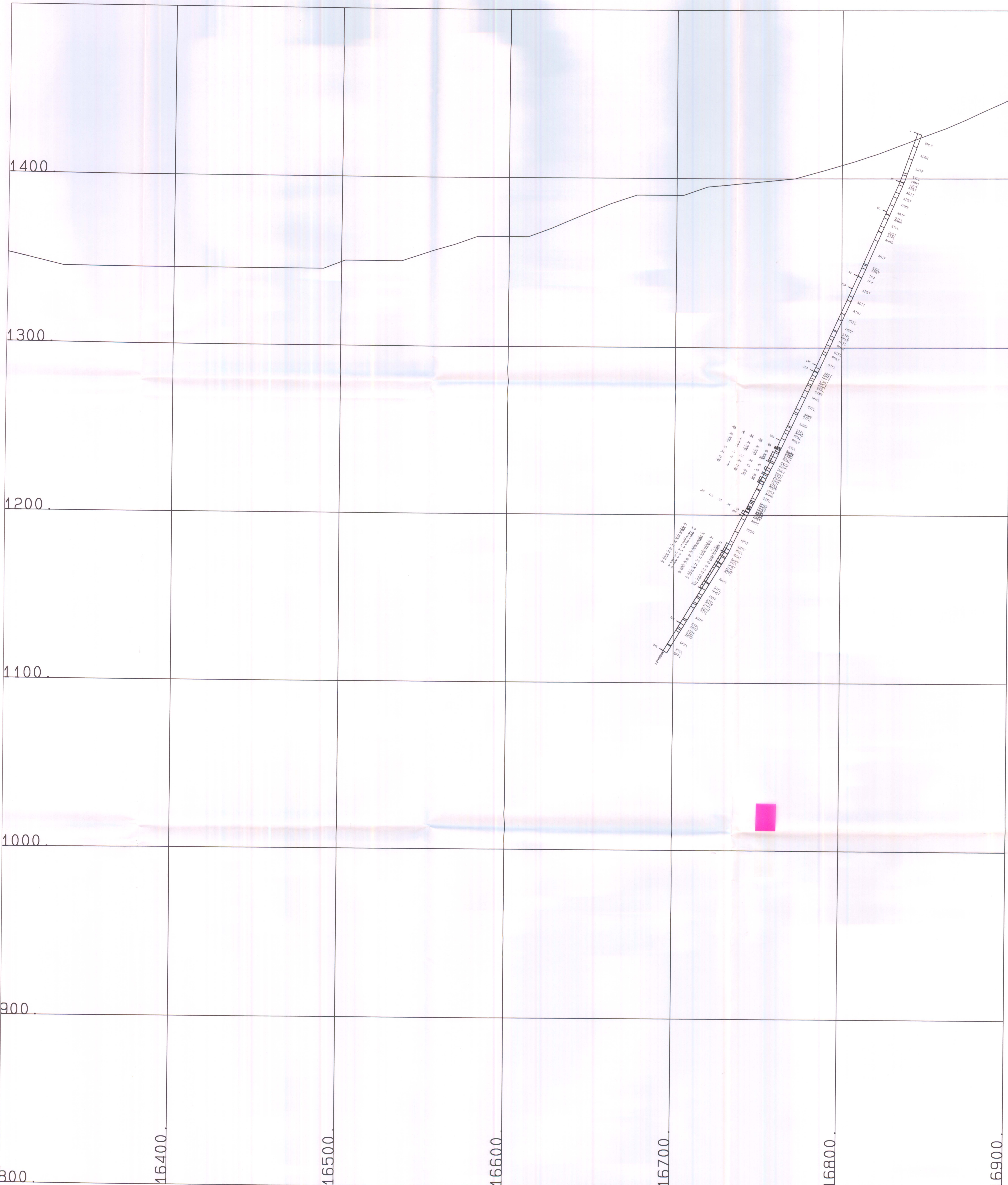



No	DATE	MADE BY	DESCRIPTION
1			
2			
3			
4			
5			

DATE	DRAWN BY	CHECKED	APPROVED
12-03-96	TLT		

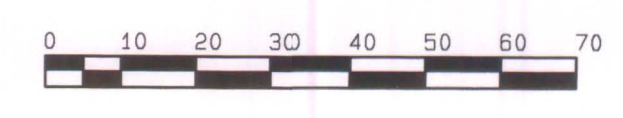
WESTMIN RESOURCES LTD. WOLVERINE PROJECT		
SECTION 17000 E - GEOLOGY		
AU AG CU PB ZN - WOLVERINE PRO		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1: 1000. M	25

#10





map scale



REVISONS	No	DATE	MADE BY	DESCRIPTION
1				
2				
3				
4				
5				

DATE	DRAWN BY	CHECKED	APPROVED
12-11-96	TLT		

WESTMIN RESOURCES LTD. WOLVERINE PROJECT

SECTION 17250 E - GEOLOGY
AU AG CU PB ZN - WOLVERINE PRO

MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1: 1000. M	26

1400

1300

1200

1100

1000

900

800

16400

16500

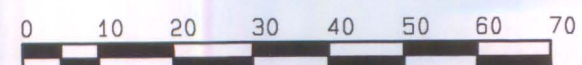
16600

16700

16800

16900

map scale



REVISIONS	No	DATE	MADE BY	DESCRIPTION
1				
2				
3				
4				
5				

DATE	DRAWN BY	CHECKED	APPROVED
12-11-96	TLT		

WESTMIN RESOURCES LTD. WOLVERINE PROJECT

SECTION 17550 E - GEOLOGY
AU AG CU PB ZN - WOLVERINE PRO

MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1: 1000. M	28

1400

1300

1200

1100

1000

900

800

16400

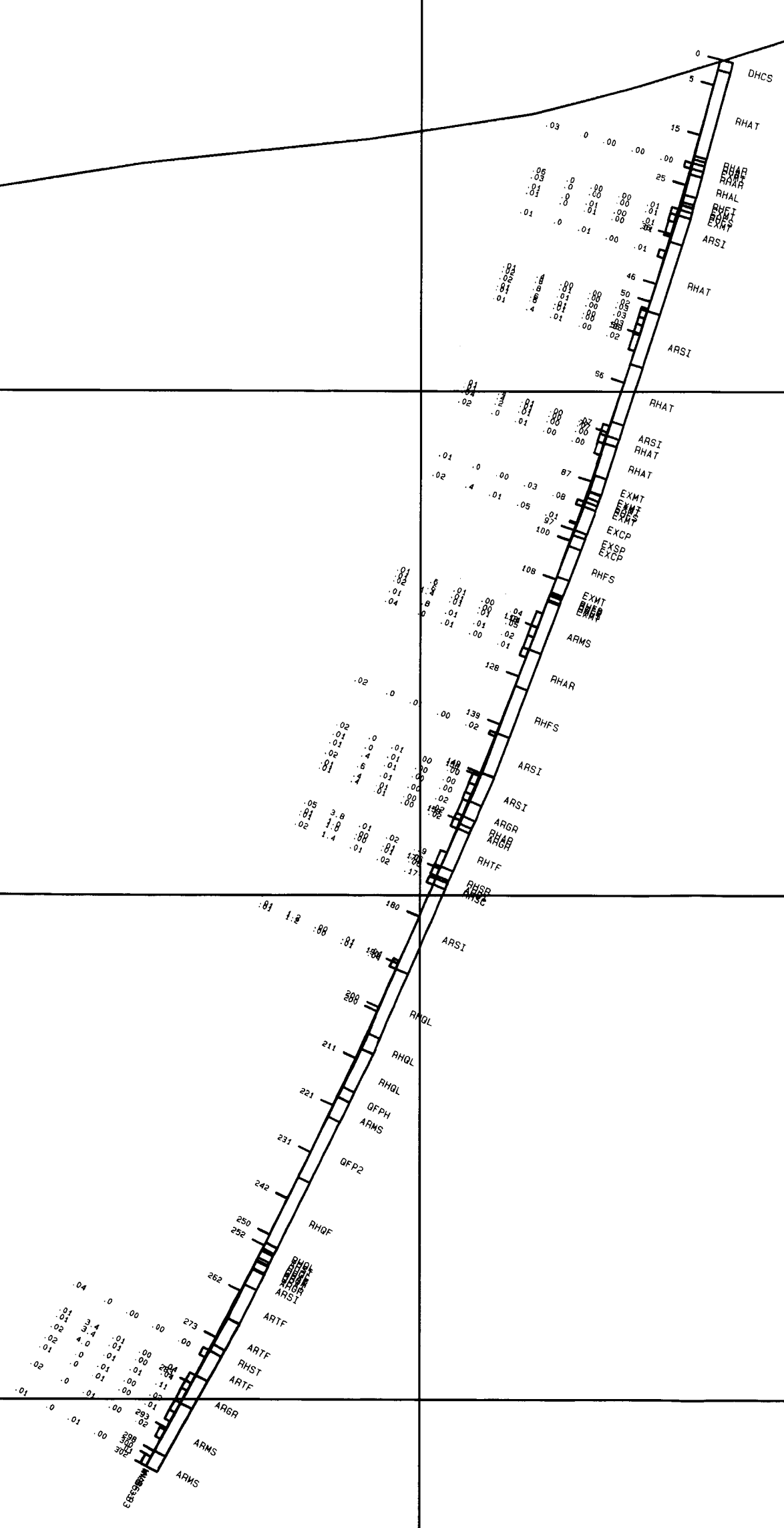
16500

16600

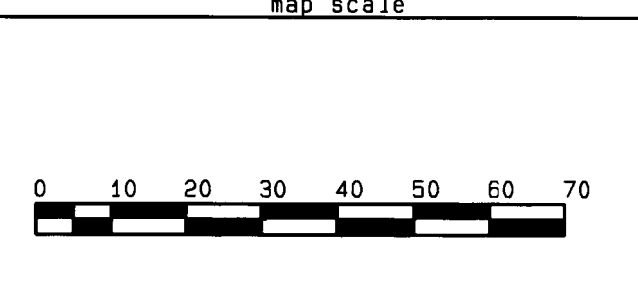
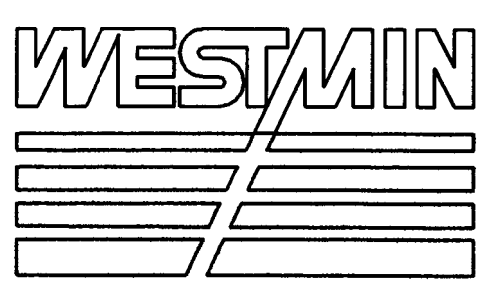
16700

16800

16900



093590

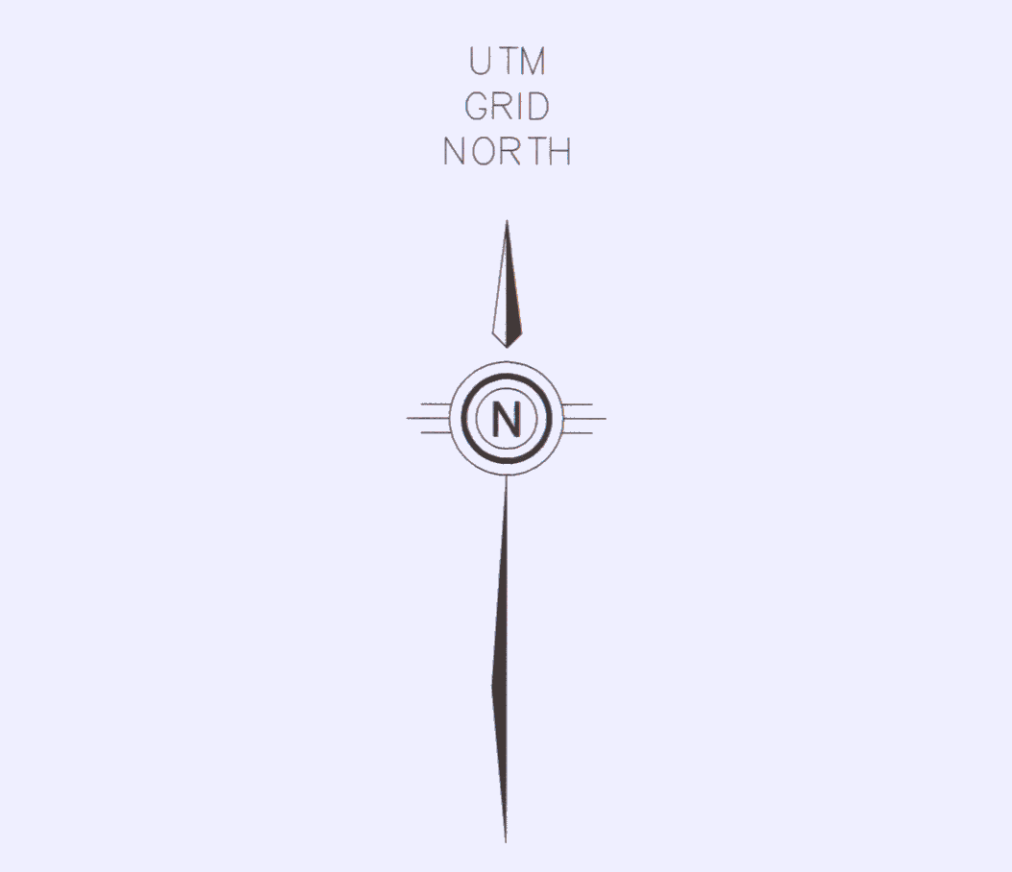
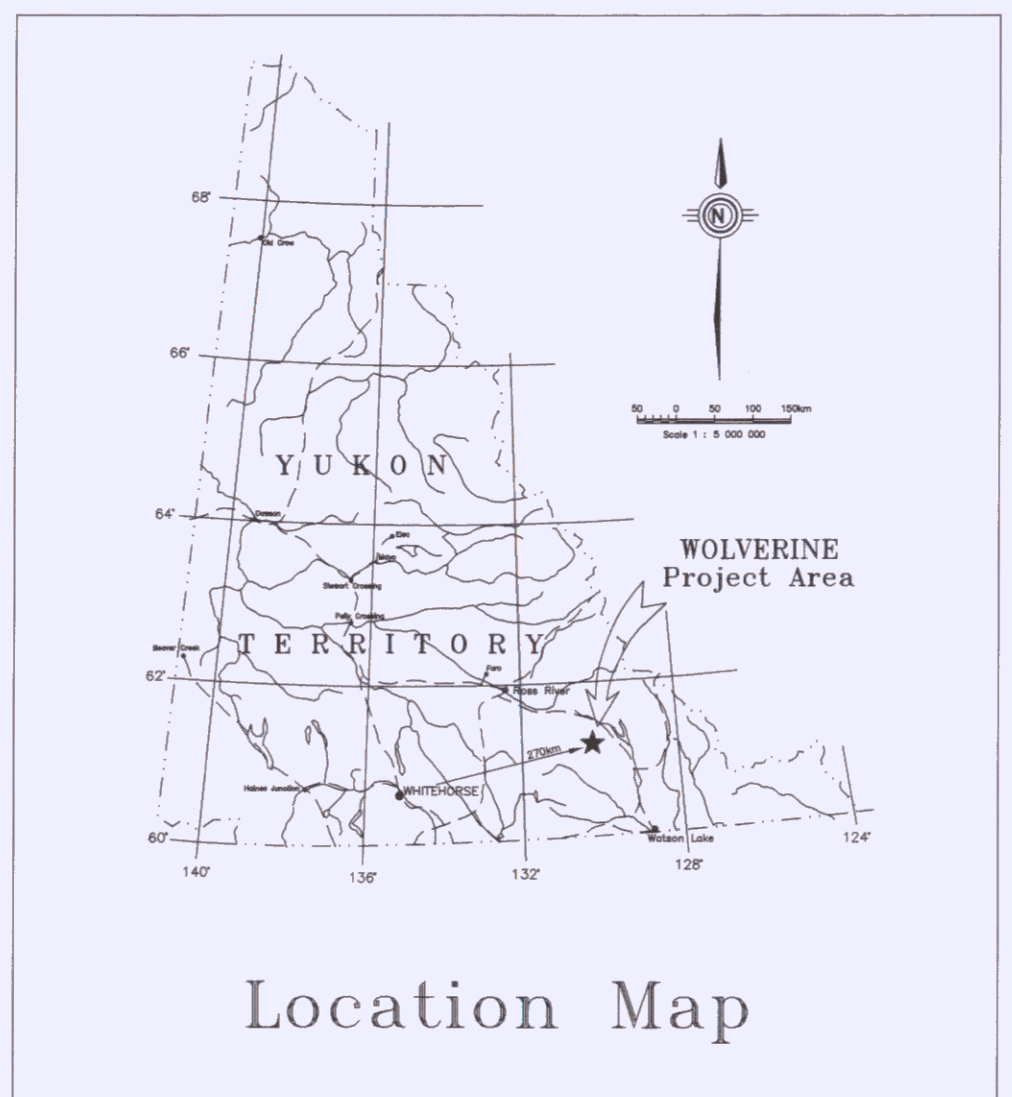


No	DATE	MADE BY	DESCRIPTION
1			
2			
3			
4			
5			

DATE	DRAWN BY	CHECKED	APPROVED
12-11-96	TLT		

WESTMIN RESOURCES LTD. WOLVERINE PROJECT		
SECTION 18000 E - GEOLOGY		
AU AG CU PB ZN - WOLVERINE PRO		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1:1000.M	29

#11



LEGEND

- ◆ WV96-54 Diamond Drill Hole Collar Location and Identifier
- WESTMIN RESOURCES - ATNA RESOURCES Joint Venture Outline
- 232 Individual Claim boundary and Identifier
- Lake
- Stream
- 120m Topographic Contour (contour Interval = 25m)
- UTM Grid Line
- ⊕ Swamp

069860





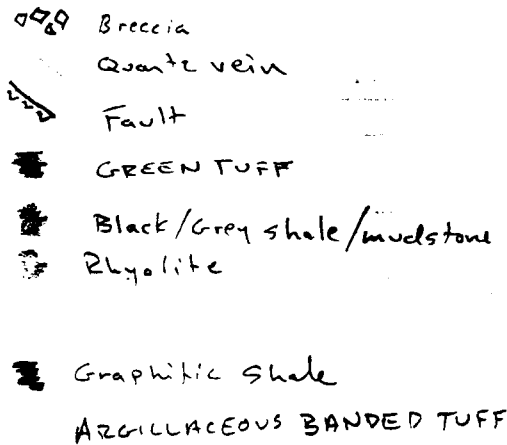
* note: some of the detailed claim information provided by COMINCO LIMITED

	WESTMIN RESOURCES LIMITED
	ATNA Resources Ltd.
Work By WESTMIN	WOLVERINE PROJECT
Date Drafted Dec. 11, 1996	Drill Hole Location Map
Drafted By A. Turner	
Date Revised	
Revised By	
N.T.S. Number 105-678	
File Name AT96DRH.dwg	
	SCALE 1 : 10,000
	Figure
	30

#12

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE LAKE	GROUND ELEV. 1487.4 m
HOLE NO. WV-96-25	BEARING 036°/001° GN
LOCATION Wolverine GRID 169565N 16800 E	DIP -74°
	TOTAL LENGTH 1487.4 feet / 437.1 m
LOGGED BY P. Thurston / T. TUCKER	HORIZONTAL PROJECT
DATE 05 April - 18 April	VERTICAL PROJECT
CONTRACTOR Caron Drilling	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE NQ	
DATE STARTED 04 April 96	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED 18 April 96	
DIP TESTS Sperry-Sun 91 m 016° - 74 413.6 m 196° - 82 182.9 m 017° - 84 431.0 m 195° - 81 259.1 m 187° - 88 These have been corrected for Grid N.	LEGEND  <ul style="list-style-type: none"> Breccia Quartz vein Fault GREEN TUFF Black/Grey shale/mudstone Rhyolite Graphitic shale ARGILLACEOUS BANDED TUFF
COMMENTS massive sulphides 373.8 - 384.8 metres strong chl altn beneath msv. sulphides. <div style="text-align: center;">3</div>	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					

209.6-209.1
note: same green silt rx
in 96-27 w/ P ϕ + CPY @
upper contact in 96-27 Faulted

4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
						ppb	ppm	%	%	%
		368.2	370.0		104651	75	12	.01	.06	.13
		370.0	371		104652	190	12.7	.02	.01	.15
		371	372		104653	290	67.5	.02	.20	.56
		372	373.8		104654	90	7.9	.01	.02	.07
		373.8	374.6		104655	1510	357	.33	2.67	13.20
		374.6	375.4		104656	890	278	0.73	1.72	13.00
		375.4	375.8		104657	540	271	2.75	0.43	8.72
		375.8	377.4		104658	170	55	0.87	0.17	1.73
		377.4	378.7		104659	140	31	0.88	0.14	6.06
		378.7	380		104660	70	21	0.87	0.05	5.43
		380	381		104661	270	39	1.61	0.21	17.00
		381	382		104662	70	24	0.81	0.11	9.88
		382	383		104663	140	41	1.37	0.15	9.13
		383	384		104664	100	21	1.50	0.05	3.02
		384	384.8		104665	210	39	3.20	0.09	2.02
		384.8	386		104666	15	13.7	1.3	0.05	1.01
		386	387		104667	0	9.9	0.92	0.04	0.27
		387	388.6		104668	0	7.2	0.96	0.05	0.26
		388.6	390		104669	0	2.4	0.11	0.02	0.32

17 APRIL 1996

To: Harlan D. Meade

From: Terry L. Tucker

Re: WV96-25

368.2 - 373.8 m (5.6m) - black carbonaceous argillite

373.8 - 375.9 m (2.1m) - (1.7m true thickness) massive [△]pyrite/sphalerite

375.9 - 377.4 m (1.5m) - RHY with minor sp/py

377.4 - 383.3 m (5.9m) - (4.8m true thickness) semi-massive to disseminated sulphide in RHY - msv sphalerite/pyrite bands 10-20cm and disseminated cpy in a RHY tuff. 20-30% of section is sulphide (primarily sp/py) but minor stringer py/sp/cpy throughout.

383.3 - 384.8 m (1.5m) - siliceous light to med green RHY? with stringer cpy.

384.8 - 388.6 m (3.8m) - chlorite altered RHY tuff with tr diss/stringer cpy.

388.6 - - intensely sericitized RHY LT.

)
Base of msv @ 16800 E / 17002 N

Assay_Database

Hole	SampNum	From	To	Interval	Au ppm	Ag ppm	Cu %	Pb %	Zn %
WV96-25	104651	368.2	370.0	1.8	0.08	12.0	0.01	0.06	0.30
WV96-25	104652	370.0	371.0	1.0	0.19	12.7	0.02	0.01	0.15
WV96-25	104653	371.0	372.0	1.0	0.29	67.5	0.02	0.20	0.56
WV96-25	104654	372.0	373.8	1.8	0.09	7.9	0.01	0.02	0.07
WV96-25	104655	373.8	374.6	0.8	1.51	357.0	0.33	2.67	13.20
WV96-25	104656	374.6	375.4	0.8	0.89	278.0	0.73	1.72	13.00
WV96-25	104657	375.4	375.8	0.4	0.54	271.0	2.75	0.43	8.72
WV96-25	104658	375.8	377.4	1.6	0.17	55.0	0.87	0.13	1.73
WV96-25	104659	377.4	378.7	1.3	0.14	31.0	0.88	0.14	6.06
WV96-25	104660	378.7	380.0	1.3	0.07	21.0	0.87	0.05	5.43
WV96-25	104661	380.0	381.0	1.0	0.27	39.0	1.61	0.21	17.00
WV96-25	104662	381.0	382.0	1.0	0.07	24.0	0.81	0.11	9.88
WV96-25	104663	382.0	383.0	1.0	0.14	41.0	1.37	0.18	9.13
WV96-25	104664	383.0	384.0	1.0	0.10	21.0	1.50	0.05	3.02
WV96-25	104665	384.0	384.8	0.8	0.21	39.0	3.20	0.09	2.02
WV96-25	104666	384.8	386.0	1.2	0.02	13.7	1.30	0.05	1.01
WV96-25	104667	386.0	387.0	1.0	-0.01	9.9	0.92	0.04	0.27
WV96-25	104668	387.0	388.6	1.6	-0.01	7.2	0.96	0.05	0.26
WV96-25	104669	388.6	390.0	1.4	-0.01	2.4	0.11	0.02	0.32

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-25	388.20	370.00	1.80	104651
WV96-25	370.00	371.00	1.00	104652
WV96-25	371.00	372.00	1.00	104653
WV96-25	372.00	373.80	1.80	104654
WV96-25	373.80	374.60	0.80	104655
WV96-25	374.60	375.40	0.80	104656
WV96-25	375.40	375.80	0.40	104657
WV96-25	375.80	377.40	1.60	104658
WV96-25	377.40	378.70	1.30	104659
WV96-25	378.70	380.00	1.30	104660
WV96-25	380.00	381.00	1.00	104661
WV96-25	381.00	382.00	1.00	104662
WV96-25	382.00	383.00	1.00	104663
WV96-25	383.00	384.00	1.00	104664
WV96-25	384.00	384.80	0.80	104665
WV96-25	384.80	386.00	1.20	104666
WV96-25	386.00	387.00	1.00	104667
WV96-25	387.00	388.60	1.60	104668
WV96-25	388.60	390.00	1.40	104669

WV96-25

WV96-25														
sample #	From	To	interval	tt(m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ba(ppm)	S.G.	As (ppm)	Sb (ppm)	Hg (ppb)
104651	368.2	370	1.8	1.6	0.075	11.0	0.01	0.06	0.3		2.64	74	62.0	2520
104652	370	371	1.0	0.9	0.19	12.7	0.02	0.01	0.15		2.65	220	62.0	740
104653	371	372	1.0	0.9	0.29	67.5	0.02	0.2	0.56		2.69	332	160.0	3490
104654	372	373.8	1.8	1.6	0.9	7.9	0.01	0.02	0.07		2.70	176	50.0	380
104655	373.8	374.6	0.8	0.7	1.51	357.0	0.33	2.67	13.20			4500	1800.0	300
104656	374.6	375.4	0.8	0.7	0.89	278.0	0.73	1.72	13.00			3900	400.0	200
104657	375.4	375.8	0.4	0.3	0.54	271.0	2.75	0.43	8.72			400	0.0	100
104658	375.8	377.4	1.6	1.4	0.17	55.0	0.87	0.13	1.73			100	0.0	0
104659	377.4	378.7	1.3	1.1	0.14	31.0	0.88	0.14	6.06			200	0.0	0
104660	378.7	380	1.3	1.1	0.07	17.0	0.87	0.05	5.43			100	0.0	0
104661	380	381	1.0	0.9	0.27	38.0	1.61	0.21	17.00			800	0.0	100
104662	381	382	1.0	0.9	0.07	24.0	0.81	0.11	9.88			300	0.0	0
104663	382	383	1.0	0.9	0.14	41.0	1.37	0.18	9.13			300	0.0	0
104664	383	384	1.0	0.9	0.10	21.0	1.50	0.05	3.02			200	0.0	0
104665	384	384.8	0.8	0.7	0.21	38.0	3.20	0.09	2.02			100	0.0	0
104666	384.8	386	1.2	1.0	0.01	13.7	1.30	0.05	1.01		2.90	6	6.4	470
104667	386	387	1.0	0.9	0.00	9.9	0.92	0.04	0.27		2.83	2	1.0	220
104668	387	388.6	1.6	1.4	0.00	7.2	0.96	0.05	0.26		2.86	2	2.4	220
104669	388.6	390	1.4	1.2	0.00	2.4	0.11	0.02	0.32		2.79	12	1.2	250
	373.8	384.8	11.0	9.5	0.31	83.7	1.22	0.43	7.53	0.00	0.00	828	160.0	49
average grade/11m														
	373.8	375.8	2.0	1.7	1.07	308.2	0.97	1.84	12.22	0.00	0.00	3440	880.0	220
average grade of massive sul.														

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE LAKE		GROUND ELEV. 1486.8 m																									
HOLE NO. WU96-26		BEARING 035°																									
LOCATION 16959.2 N 16850.8 E		DIP -74°																									
		TOTAL LENGTH 438.0 m																									
LOGGED BY TERRY TUCKER		HORIZONTAL PROJECT																									
DATE MAY 4		VERTICAL PROJECT																									
CONTRACTOR Caron Drilling		ALTERATION SCALE																									
CORE SIZE HQ		<p>absent slight moderate intense</p>																									
DATE STARTED April 18																											
DATE COMPLETED May 3																											
DIP TESTS		TOTAL SULPHIDE SCALE																									
<table border="1"> <tr> <td>30.5</td> <td>-75</td> <td>007</td> <td>271.3</td> <td>-82</td> <td></td> </tr> <tr> <td>54</td> <td>-29</td> <td>013</td> <td>298.7</td> <td>-82</td> <td></td> </tr> <tr> <td>100.6</td> <td>-82</td> <td></td> <td>320</td> <td>-82</td> <td>194°</td> </tr> <tr> <td>228.6</td> <td>-85</td> <td></td> <td>420.6</td> <td>-28</td> <td>197°</td> </tr> </table>		30.5	-75	007	271.3	-82		54	-29	013	298.7	-82		100.6	-82		320	-82	194°	228.6	-85		420.6	-28	197°	<p>traces only < 1% 1% - 3% 3% - 10% > 10%</p>	
30.5	-75	007	271.3	-82																							
54	-29	013	298.7	-82																							
100.6	-82		320	-82	194°																						
228.6	-85		420.6	-28	197°																						
COMMENTS		LEGEND																									
<p>- Massive sulphide Int: 382.8 - 385.7 (2.9 m)</p> <p>- casing 4.57 m.</p> <p>- C-P EX 338.6 - 342.1</p>																											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au ppb	Ag ppm	Cu %	Pb %	Zn %
very broken core but 5% py in minor a.v. and very "rotted" black argillite?		330.7	333.8		104680	30	-	.0128	0.1	.014
gouge bc to light green minor stuffed component and arg. component		333.8	337.4		104681	5	-	.0103	0.012	.0648
med gray - blk argillite & 1-2% py		337.4	338.6		104682	10	-	.0065	0.029	0.38
1-4% sp as laminae in EXCP		338.6	339.9		104683	-	-	.0036	0.018	.1085
2% sp		339.9	341.4		104684	10	-	.0029	0.027	.355
2% sp		341.4	342.1		104685	30	.6	.0071	0.07	2.8

96-26

Core angle = 55° avg.

378.1 - 382.8 Broken graphitic argillite

msv sulphide { 382.8 - 383.9 massive sulphide - zinc rich
buckshot py in frag. sph. matrix

383.9 - 384.0 semi msv sulphide, cpy clots

stringer { 384.0 - 384.5 laminated grey silica rock
w/ disseminated cpy + py, local
stringer cpy

384.5 - 385.4 stringer sulphides in frag. silica rock

385.4 - 385.7 silica rock, laminated, fragmental
texture

Assay_Database

Hole	SampNum	From	To	Interval	Au ppm	Ag ppm	Cu %	Pb %	Zn %
WV96-26	104670	149.8	150.0	0.2	0.01	0.9	0.04	0.00	0.02
WV96-26	104680	330.7	333.8	3.1	0.03	-0.2	0.13	1.00	0.14
WV96-26	104681	333.8	337.4	3.6	0.01	-0.2	0.10	0.12	0.65
WV96-26	104682	337.4	338.6	1.2	0.01	-0.2	0.07	0.29	3.80
WV96-26	104683	338.6	339.9	1.3	-0.01	-0.2	0.04	0.18	1.09
WV96-26	104684	339.9	341.4	1.5	0.01	-0.2	0.03	0.27	3.55
WV96-26	104685	341.4	342.1	0.7	0.03	0.6	0.07	0.70	-10.00
WV96-26	104671	378.1	379.2	1.1	0.09	10.5	0.04	0.02	1.39
WV96-26	104672	379.2	380.1	0.9	1.46	229.0	0.06	0.92	7.04
WV96-26	104673	380.1	381.0	0.9	0.32	64.8	0.02	0.13	0.55
WV96-26	104674	381.0	382.8	1.8	0.30	56.5	0.04	0.16	0.80
WV96-26	104675	382.8	383.9	1.1	0.86	192.0	0.47	1.37	13.00
WV96-26	104676	383.9	384.5	0.6	0.31	106.0	0.91	0.34	6.67
WV96-26	104677	384.5	385.4	0.9	1.30	405.0	0.47	2.34	12.90
WV96-26	104678	385.4	385.7	0.3	0.13	59.0	0.20	0.03	4.92
WV96-26	104679	385.7	386.6	0.9	0.20	61.5	0.30	0.01	3.09
WV96-26	104686	426.7	432.0	5.3	-0.01	0.2	0.02	0.27	0.25

close to TT

WV96-26														
sample #	rock type	FROM	TO	-Al-	Au	Ag	Cu	Pb	Zn	Ba	Sg	As	Sb	Hg
104672	arg	379.2	380.1	0.9	1460	229	0.06	0.92	7.04	-9	2.91	660	-9	-9
104673	arg	380.1	381	0.9	315	64.8	0.02	0.13	0.55	-9	2.62	370	-9	-9
104674	arg	381	382.8	1.8	300	56.5	0.04	0.16	0.8	-9	2.58	510	-9	-9
104675	msv	382.8	383.9	1.1	860	192	0.47	1.37	13	-9	4.47	2300	0.05	-9
104676	msv	383.9	384.5	0.6	310	106	0.91	0.34	6.67	-9	3.25	600	0.02	-9
104677	msv	384.5	385.4	0.9	1300	405	0.47	2.34	12.9	-9	4.27	1800	0.05	-9
104678	fw - stringer	385.4	385.7	0.3	130	10.7	0.2	0.03	4.92	-9	2.76	108	-9	-9
104679	fw-stringer	385.7	386.6	0.9	200	61.5	0.3	0.01	3.09	-9	2.78	34	-8	-9
average grade		379.2	386.6	7.4	630	143.8	0.26	0.68	5.74	?	3.20	867	?	?
average grade		382.8	385.4	2.6	950	270.4	0.71	1.56	12.53	?	4.61	1808	?	?

WV96-26

Sample		From	To		Au	Ag	Cu	Pb	Zn	Ba	Sg	As	Sb	Hg
104680		330.7	333.8											
104681		333.8	337.4											
104682		337.4	338.6											
104683		338.6	339.9											
104684		339.9	341.4											
104685		341.4	342.1											
104671	arg	378.1	379.2		90	105	0	0.02	1.39	-9	2.8	164	-9	-9
WV96-26														
sample #	rock type	FROM	TO	-Al-	Au	Ag	Cu	Pb	Zn	Ba	Sg	As	Sb	Hg
104672	arg	379.2	380.1	0.9	1460	229	0.06	0.92	7.04	-9	2.91	660	-9	-9
104673	arg	380.1	381	0.9	315	64.8	0.02	0.13	0.55	-9	2.62	370	-9	-9
104674	arg	381	382.8	1.8	300	56.5	0.04	0.16	0.8	-9	2.58	510	-9	-9
104675	msv	382.8	383.9	1.1	860	152	0.47	1.37	13	-9	4.47	2300	0.05	-9
104676	msv	383.9	384.5	0.6	310	106	0.91	0.34	6.67	-9	3.25	600	0.02	-9
104677	msv	384.5	385.4	0.9	1300	405	0.47	2.34	12.9	-9	4.27	1800	0.05	-9
104678	fw-stringer	385.4	385.7	0.3	130	10.7	0.2	0.03	4.92	-9	2.76	108	-9	-9
104679	fw-stringer	385.7	386.6	0.9	200	61.5	0.3	0.01	3.09	-9	2.78	34	-9	-9
average grade		379.2	386.6	7.4	630	143.8	0.26	0.68	5.74	?	3.20	867	?	?
average grade		382.8	385.4	2.6	950	270.4	0.71	1.56	12.53	?	4.61	1808	?	?
					1314	206.1	0.05	0.83	6.34		2.62	594	-8.10	
					283	58.3	0.02	0.12	0.49		2.36	333	-8.10	
					540	101.7	0.07	0.29	1.44		4.64	918	-16.20	
					946	211.2	0.52	1.51	14.30		4.92	2530	0.05	
					186	63.6	0.55	0.20	4.00		1.95	360	0.01	
					1170	364.5	0.42	2.11	11.61		3.84	1620	0.04	
					39	3.2	0.06	0.31	1.48		0.83	32	-2.70	
					180	55.4	0.27	0.01	2.78		2.50	31	-8.10	
average grade -		7.40			630	143.8	0.26	0.68	5.74		3.20	867	-5.82	
average grade -		2.60			950	270.4	0.71	1.56	12.53		4.61	1808	0.05	

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-26	149.80	150.00	0.20	104670
WV96-26	378.10	379.20	1.10	104671
WV96-26	379.20	380.10	0.90	104672
WV96-26	380.10	381.00	0.90	104673
WV96-26	381.00	382.80	1.80	104674
WV96-26	382.80	383.90	1.10	104675
WV96-26	383.90	384.50	0.60	104676
WV96-26	384.50	385.40	0.90	104677
WV96-26	385.40	385.70	0.30	104678
WV96-26	385.70	386.60	0.90	104679
WV96-26	330.70	333.80	3.10	104680
WV96-26	333.80	337.40	3.60	104681
WV96-26	337.40	338.60	1.20	104682
WV96-26	338.60	339.90	1.30	104683
WV96-26	339.90	341.40	1.50	104684
WV96-26	341.40	342.10	0.70	104685
WV96-26	426.70	432.00	5.30	104686

WV96-27

WV96-27				Corrected	Sperry-Sun	Grid	Actual
Survey Type	Depth (ft.)	Depth (m)	Inclination	Inclination	Azimuth	Azimuth	Azimuth
Collar	0	0.0	-67	-67		0	35
Sperry-Sun	181	55.2	-74	-74	11	8	43
Acid Etch	252	76.8	-80	-76		8	43
Acid Etch	352	107.3	-82.5	-80		8	43
Acid Etch	452	137.8	-83.5	-82		8	43
Acid Etch	562	177.4	-89	-89		8	43
Sperry-Sun	632	192.6	-88	-88	10	7	42
Acid Etch	774	235.9	-87	-86		7	42
Acid Etch	885	263.7	-84	-82		7	42
Acid Etch	990	301.8	-83	-80.5		7	42
Sperry-Sun	1052	320.6	-80	-80	218	215	250
Acid Etch	1152	351.1	-82	-79		215	250
Sperry-Sun	1367	416.7	-74.5	-74.5	199	196	231

Diamond Drill hole WV96-27

Summary Log of Sulphide Intercept

average core \angle \approx 55°

all depths in metres

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
381.1	381.2	0.1	<p>Fault Mixture of gravelly carbonaceous black shale, gouge, and clay.</p>
381.2	382.3	1.1	<p>Pyrite Rich Massive Sulphide Massive to banded fine grained pyrite with sphalerite rich bands (40-50% sphalerite) up to 3 mm thick. Approximately 15% of this interval is composed of sphalerite bands. Medium to fine grained, remobilized, chalcopyrite occurs in clots up to 4 mm in diameter near the upper contact of the massive sulphide. A small slice of laminated black shale is preserved at the very top of the massive sulphide. The shale/sulphide contact is sharp and appears to be depositional. The sphalerite content increases in the lower 8 cm of the interval but pyrite is still the dominant sulphide species.</p>
382.3	383.2	0.9	<p>Sphalerite Rich Massive Sulphide Massive to banded fine grained pyrite with sphalerite rich bands up to 4 cm thick. Sphalerite bands are 50-60% sphalerite with 15% coarse "buckshot" pyrite and 25% fine grained pyrite. Alternating bands of pyrite and sphalerite exhibit a fine mm scale wavy layering with 3-5 mm x 2-3mm lenses of pyrite in a sphalerite rich matrix. This texture looks depositional. The upper contact with pyrite rich massive sulphide is gradational and marked by an an increase in the quantity and thickness of sphalerite bands. The lower contact is abrupt and marked by</p>
383.2	383.47	0.27	<p>Pyritic Semi-Massive Sulphide Medium grained semi-massive pyrite with lesser sphalerite (<7%), minor chalcopyrite, and minor pyrrhotite. Two types of pyrite are present; medium grained crudely banded pyrite and coarser "buckshot" pyrite. The matrix is composed of Clots of <i>silica</i> <i>+</i> <i>CO₃</i></p>

black chlorite to 3 mm in diameter comprise 7-10% of the rock. Basal contact of this unit is sharp and appears to be depositional.

383.47 386.35 2.88

Interbedded Siliceous Argillite and Semi-Massive Sulphide

Laminated grey siliceous argillite with bands of semi-massive sulphides up to 5 cm thick. Composition of the bands is variable, some are pyrite rich, some are sphalerite rich, and some contain chalcopyrite >pyrite. All the sulphide bands contain traces of carbonate and some contain 2-3mm clots of black chlorite. The entire interval contains approximately 30-35% sulphide bands and 65-70% argillite.

384.2 m - 5 cm sulphide band containing pyrite, coarse chalcopyrite clots (to 5 mm) that look remobilized and lesser sphalerite. Some of the chalcopyrite is remobilized onto extensional fractures 2-3 mm wide that crosscut the foliation at a high angle. Some pyrrhotite (1-3%) is associated with the chalcopyrite.

385.8 m - 4 cm sulphide band containing sphalerite >> chalcopyrite. Chalcopyrite remobilized into extensional fractures.

386.35 386.7 0.35

Massive to Banded Rhyolite

Pale green/grey siliceous rock with dark green chlorite partings. Several thin (<1 cm) bands of sphalerite > pyrite stringer sulphides are present in the lower part of the unit. Upper contact is discordant with the primary foliation, lower contact is sharp and planar.

386.7 387.1 0.4

Argillite with Stringer Sulphides

Medium grey laminated to banded silicified argillite containing bands of sphalerite rich stringer sulphides up to 7 mm thick. Minor chalcopyrite.

387.1 387.6 0.5

Semi-Massive Sulphides

Polymetallic semi-massive sulphides with 10-15% silicified argillite component. Pyrite > sphalerite > chalcopyrite. 3-5 % pyrrhotite present at base of unit. Wavy, lensey foliation. Local "buckshot" texture in pyrite, some vugs and open space in massive pyrite.

387.6	388.2	0.6	<p>Massive Rhyolite Similar to 386.35-386.7. Medium grey/green silica rock with ghosts of quartz phenocrysts. Irregular discordant body of pyrite > sphalerite > chalcopyrite semi-massive sulphide and minor carbonate at 387.9 metres.</p>
388.2	388.86	0.66	<p>Semi-Massive Sulphides Contorted, banded semi-massive polymetallic (py+sp+cpy) sulphides. Chalcopyrite rich to 388.35 metres. Grey rhyolite with py>sph>cpy stringer sulphide to 388.6 metres. Banding in sulphides parallel to primary foliation at base of unit. This unit may be ripped up pieces of sulphides incorporated into the massive rhyolite.</p>
388.86	390.1	1.24	<p>Argillite with Stringer Sulphides Siliceous black shale/argillite containing bands of sphalerite > pyrite stringer sulphide up to 1 cm thick. Most of the sulphide bands are 3-5 mm thick. Approximately 30% of the interval is sulphide, 70% argillite. The lower 30 cm of the interval contains polymetallic semi-massive sulphides (sph + py + cpy) with delicate wavy layering and local clots of coarse remobilized chalcopyrite up to 3 mm in diameter. 389.6 m - coarse anhedral pyrite clots to 7 mm. 389.9 m - band with sph > py, coarse anhedral pyrite clots to 6 mm in diameter.</p>
390.1	390.7	0.6	<p>Silicified and Chlorite Altered Rhyolite Pale grey to cream colored rhyolite with small (< 1mm) quartz eyes and texture suggestive of a fragmental rock (?). Strong chlorite alteration and silicification. Pseudo fragmental texture possibly produced by alteration.</p>
390.7	391.8	1.1	<p>Silicified Rhyolite with Stringer Sulphides Massive to banded grey rhyolite with bands of polymetallic (py>sph>cpy) stringer sulphides and semi-massive sulphides. Sulphide bands are located at 390.7-390.79 metres and 39.83-390.2 metres.</p>
391.8	399.9	8.1	<p>Chlorite Altered Rhyolite Lapilli Tuff Banded lapilli tuff with strong dark green to black chlorite alteration. Thin stringers (0.5-2.0 mm) of</p>

sphalerite and pyrite present throughout unit.
Sulphide stringers comprise 3-5% of unit overall.
Lapilli defined by lenses of silica + carbonate and are
2-4 mm thick by 4-6 mm long, parallel to the primary
foliation. Chlorite alteration decreases in intensity
below 397.5 metres. Lapilli content is variable and
ranges from 10% to 30% of the rock.

Assay_Database

Hole	SampNum	From	To	Interval	Au ppm	Ag ppm	Cu %	Pb %	Zn %
WV96-27	104687	278.2	279.1	0.9	-0.01	-0.2	0.02	0.00	0.12
WV96-27	104688	279.1	280.0	0.9	0.04	-0.2	0.06	0.03	0.50
WV96-27	104689	280.3	280.4	0.1	0.01	-0.2	0.02	0.00	0.03
WV96-27	104690	284.0	284.4	0.4	0.15	-0.2	0.10	0.00	0.15
WV96-27	104691	323.9	326.4	2.5	0.02	-0.2	0.03	0.65	0.05
WV96-27	104692	329.6	330.2	0.6	0.02	-0.2	0.06	0.08	1.09
WV96-27	104693	330.2	330.7	0.5	0.01	-0.2	0.06	0.04	0.04
WV96-27	104694	330.7	332.0	1.3	0.01	-0.2	0.05	0.94	3.17
WV96-27	104720	374.4	376.3	1.9	0.03	-0.2	0.01	0.01	0.01
WV96-27	104719	376.3	377.8	1.5	0.13	25.5	0.01	0.08	0.96
WV96-27	104718	377.8	378.6	0.8	0.20	52.2	0.08	0.04	0.26
WV96-27	104717	378.6	380.1	1.5	0.40	96.0	0.06	0.23	1.15
WV96-27	104716	380.1	381.2	1.1	0.21	21.9	0.04	0.03	0.12
WV96-27	104695	381.2	382.3	1.1	1.27	288.0	0.24	1.77	10.90
WV96-27	104696	382.3	383.2	0.9	1.17	408.0	0.63	3.27	21.20
WV96-27	104697	383.2	383.5	0.3	1.27	305.0	3.99	0.64	6.18
WV96-27	104698	383.5	384.5	1.0	0.45	160.0	1.40	0.13	3.90
WV96-27	104699	384.5	385.9	1.4	0.23	67.7	1.65	0.14	4.38
WV96-27	104700	385.9	387.1	1.2	0.06	12.2	0.41	0.05	4.81
WV96-27	104701	387.1	387.6	0.5	0.21	50.0	0.70	0.43	11.90
WV96-27	104702	387.6	388.2	0.6	0.04	8.3	0.34	0.04	3.44
WV96-27	104703	388.2	388.6	0.4	0.08	11.9	0.43	0.05	7.63
WV96-27	104704	388.6	388.9	0.3	0.19	27.3	0.88	0.16	11.10
WV96-27	104705	388.9	390.1	1.2	-0.01	25.4	1.17	0.10	7.49
WV96-27	104706	390.1	390.7	0.6	-0.01	2.4	0.07	0.02	0.57
WV96-27	104707	390.7	391.8	1.1	0.15	34.5	1.79	0.11	2.89
WV96-27	104708	391.8	393.2	1.4	0.01	14.8	0.64	0.05	0.68
WV96-27	104709	393.2	394.7	1.5	0.01	18.2	1.01	0.06	0.76
WV96-27	104710	394.7	396.2	1.5	0.01	5.8	0.37	0.04	0.72
WV96-27	104711	396.2	397.7	1.5	-0.01	0.3	0.04	0.02	0.03
WV96-27	104712	397.7	399.9	2.2	-0.01	-0.2	0.03	0.00	0.02
WV96-27	104713	399.9	401.0	1.1	-0.01	-0.2	0.01	0.01	0.02
WV96-27	104714	401.0	402.3	1.3	-0.01	-0.2	0.02	0.00	0.01
WV96-27	104715	402.3	403.9	1.6	0.15	-0.2	0.02	0.01	0.01

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-27	278.20	279.10	0.90	104687
WV96-27	279.10	280.00	0.90	104688
WV96-27	280.30	280.40	0.10	104689
WV96-27	284.00	284.40	0.40	104690
WV96-27	323.85	326.40	2.55	104691
WV96-27	329.60	330.20	0.60	104692
WV96-27	330.20	330.70	0.50	104693
WV96-27	330.70	332.00	1.30	104694
WV96-27	381.20	382.30	1.10	104695
WV96-27	382.30	383.20	0.90	104696
WV96-27	383.20	383.47	0.27	104697
WV96-27	383.47	384.50	1.03	104698
WV96-27	384.50	385.90	1.40	104699
WV96-27	385.90	387.10	1.20	104700
WV96-27	387.10	387.60	0.50	104701
WV96-27	387.60	388.20	0.60	104702
WV96-27	388.20	388.60	0.40	104703
WV96-27	388.60	388.90	0.30	104704
WV96-27	388.90	390.10	1.20	104705
WV96-27	390.10	390.70	0.60	104706
WV96-27	390.70	391.80	1.10	104707
WV96-27	391.80	393.20	1.40	104708
WV96-27	393.20	394.70	1.50	104709
WV96-27	394.70	396.20	1.50	104710
WV96-27	396.20	397.70	1.50	104711
WV96-27	397.70	399.90	2.20	104712
WV96-27	399.90	401.00	1.10	104713
WV96-27	401.00	402.30	1.30	104714
WV96-27	402.30	403.90	1.60	104715
WV96-27	380.10	381.20	1.10	104716
WV96-27	378.60	380.10	1.50	104717
WV96-27	377.80	378.60	0.80	104718
WV96-27	376.30	377.80	1.50	104719
WV96-27	374.40	376.30	1.90	104720

WV96-27


WV96-27		Avg. Core Angle = 60															
sample #	Rxtyp	Zone	From	To	interval	tt(m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ba(ppm)	S.G.	As (ppm)	Sb (ppm)	Hg (ppb)	
104720	arg	HW	374.4	376.3	1.9	1.6	0.03	0.0	0.01	0.01	0.01	8110	2.71	10	7	70	
104719	arg	HW	376.3	377.8	1.5	1.3	0.13	25.5	0.01	0.08	0.96	11580	2.73	118	48	4620	
104718	arg	HW	377.8	378.6	0.8	0.7	0.20	52.2	0.08	0.04	0.26	9370	2.62	264	164	970	
104717	arg	HW	378.6	380.1	1.5	1.3	0.40	93.5	0.08	0.23	1.15	50000	2.9	356	210	5490	
104716	arg	HW	380.1	381.2	1.1	1.0	0.21	21.9	0.04	0.03	0.12	16550	2.68	276	114	870	
104695	ms	MS	381.2	382.3	1.1	1.0	1.27	288.0	0.24	1.77	10.9	295	4.44	3600	1300	30	
104696	ms	MS	382.3	383.2	0.9	0.8	1.17	408.0	0.63	3.27	21.2	150	4.37	7200	1000	40	
104697	ms	MS	383.2	383.47	0.27	0.2	1.27	305.0	3.99	0.64	6.18	7250	3.51	100	300	10	
104698	sms	MS	383.47	384.5	1.03	0.9	0.45	147.0	1.4	0.13	3.9	3100	2.82	0	100	0	
104699	sms	MS	384.5	385.9	1.4	1.2	0.23	67.7	1.65	0.14	4.38	1995	2.85	88	51	1870	
104700	strs	SZ	385.9	387.1	1.2	1.0	0.06	12.2	0.41	0.05	4.81	3730	2.94	56	16	2120	
104701	sms	SZ	387.1	387.6	0.5	0.4	0.21	50.0	0.7	0.43	11.9	7280	3.71	660	52	2280	
104702	strs	SZ	387.6	388.2	0.6	0.5	0.04	8.3	0.34	0.04	3.44	2660	2.78	50	11	2310	
104703	sms	SZ	388.2	388.6	0.4	0.3	0.08	11.9	0.43	0.05	7.63	6020	2.98	66	11	3440	
104704	sms	SZ	388.6	388.9	0.3	0.3	0.19	27.3	0.88	0.16	11.1	8380	3.39	186	38	3020	
104705	strs	SZ	388.9	390.1	1.2	1.0	0.00	25.4	1.17	0.10	7.49	3540	2.97	96	32	2880	
104706	rhy	SZ	390.1	390.7	0.6	0.5	0.00	2.4	0.07	0.02	0.57	5060	2.88	2	10	500	
104707	rhy + strs	SZ	390.7	391.8	1.1	1.0	0.15	34.5	1.79	0.11	2.89	6090	2.96	38	15	1790	
104708	chl alt FW	FW	391.8	393.2	1.4	1.2	0.01	14.8	0.64	0.05	0.68	840	2.81	2	3	620	
104709	chl alt FW	FW	393.2	394.7	1.5	1.3	0.01	18.2	1.01	0.06	0.76	1175	2.86	4	3	780	
104710	chl alt FW	FW	394.7	396.2	1.5	1.3	0.01	5.8	0.37	0.04	0.72	740	2.78	4	1	770	
104711	chl alt FW	FW	396.2	397.7	1.5	1.3	0.00	0.3	0.005	0.01	0.03	1160	2.76	12	1	10	
104712	chl alt FW	FW	397.7	399.9	2.2	1.9	0.00	0.0	0.005	0.01	0.02	2120	2.73	16	1	20	
104713	chl alt FW	FW	399.9	401	1.1	1.0	0.00	0.0	0.005	0.01	0.02	2600	2.73	30	3	10	
104714	ser alt fw	FW	401	402.3	1.3	1.1	0.00	0.0	0.005	0.01	0.01	2250	2.71	94	5	10	
104715	ser alt fw	FW	402.3	403.9	1.6	1.4	0.15	0.0	0.005	0.01	0.01	2340	2.74	24	2	10	
Hanging Wall			374.4	381.2	6.8	5.9	0.18	35.9	0.03	0.08	0.52	19629	2.74	183	97	2505	
Massive Sulphide			381.2	385.9	4.7	4.1	0.76	215.4	1.20	1.15	9.13	1788	3.54	2253	550	572	
Stringer Zone			385.9	391.8	5.9	5.1	0.08	21.6	0.83	0.11	5.54	4849	3.02	113	22	2216	
Footwall			391.8	403.9	12.1	10.5	0.02	4.7	0.25	0.02	0.27	1651	2.76	22	2	272	

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVETRINE LAKE		GROUND ELEV. 1487.4 metres																															
HOLE NO. WU - 96 - 27		BEARING (035°)																															
LOCATION 16956 N 216800 E		DIP -67°																															
LOGGED BY A. Turner / P. Thurston		TOTAL LENGTH 416.8 m.																															
DATE April 24/96		HORIZONTAL PROJECT																															
CONTRACTOR E. Cannon Drilling		VERTICAL PROJECT																															
CORE SIZE MQ		ALTERATION SCALE 																															
DATE STARTED April 21/96		TOTAL SULPHIDE SCALE 																															
DATE COMPLETED May 10/96																																	
<table border="1"> <thead> <tr> <th>DIP TESTS</th> <th>177.4</th> <th>-89°</th> <th>351.1</th> <th>-79°</th> </tr> </thead> <tbody> <tr> <td>55 m -74° SS 009° AE</td> <td>192.6</td> <td>-98° 007°</td> <td>416.7</td> <td>-74.5° 196°</td> </tr> <tr> <td>77 m -76° AE</td> <td>235.9</td> <td>-80°</td> <td></td> <td></td> </tr> <tr> <td>107 m -80° AE</td> <td>263.7</td> <td>-72°</td> <td></td> <td></td> </tr> <tr> <td>137.8 m -82° AE</td> <td>301.2</td> <td>-70.5°</td> <td></td> <td></td> </tr> <tr> <td></td> <td>320.6</td> <td>-70° 215°</td> <td></td> <td></td> </tr> </tbody> </table>				DIP TESTS	177.4	-89°	351.1	-79°	55 m -74° SS 009° AE	192.6	-98° 007°	416.7	-74.5° 196°	77 m -76° AE	235.9	-80°			107 m -80° AE	263.7	-72°			137.8 m -82° AE	301.2	-70.5°				320.6	-70° 215°		
DIP TESTS	177.4	-89°	351.1	-79°																													
55 m -74° SS 009° AE	192.6	-98° 007°	416.7	-74.5° 196°																													
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	320.6	-70° 215°																															
COMMENTS		LEGEND																															
<ul style="list-style-type: none"> - casing - 6.10 m - massive sulphides - 381.2 - 391.8 (and semi-massive) 10.6 m. - long stringer zone - reduced to MQ at 321.6 m. - CC-PY-E* 330.2 - 332.6 																																	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0-6.7m				Casing / rubbly core.							
1											
2				rubbly core. - Fragments of a massive light grey Rhyolite @ sericitic partings defining folia							
3											
4				- grey Rhyolite (Silica-Rhyolite) gives way gradually to sil's argil. +/- Rhy. below.							
5											
6											
6.7-10.9				Banded Sil's Argillite > Rhy. (RHAR)							
7	25%										
8	4%			- dk. gr. to blk. sil's Argillite (1-3mm) inter-bedded @ v. hard / sil's lighter grey Rhyolitic bands (5-25mm)							
9	15%			badly broken core.							
10	15%			(poor recovery) - possible lapilli tufts (thin), highly sheared anastomosing. Foliation indubiting bottom up (?)							
11											
12	20%			10.9-12.5 Massive Grey Rhyolite (RHMS)							
13											
14	25%			badly broken core. - as at top of hole - lt-med. grey. massive, (Qtz >> ser. schist)							
15	15%			- several of the larger core fragments show folia @ 20° to CA.							
16				Q.V. - (12.25-12.50) (Fragments only) Δ to CA unknown.							
17											
17.5-17.7				Banded Rhyolite > Argillite (RHAR)							
18	20%										
19	15%			badly broken core - variable amounts, generally 75-80%, thin (.3-2mm) grey and dk grey, sil's Rhyolite and 20-25% dk grey-black phyllite + argillitic laminae							
20	10%			- highly sheared (+/- flattening) with stylolitic edges on sheared Rhy. interlayers							
21	20%										
22	3%			Q.V. 12.05-12.15m // Silica (Rhy ≅ Argil) 16.8-17.4m							
23											

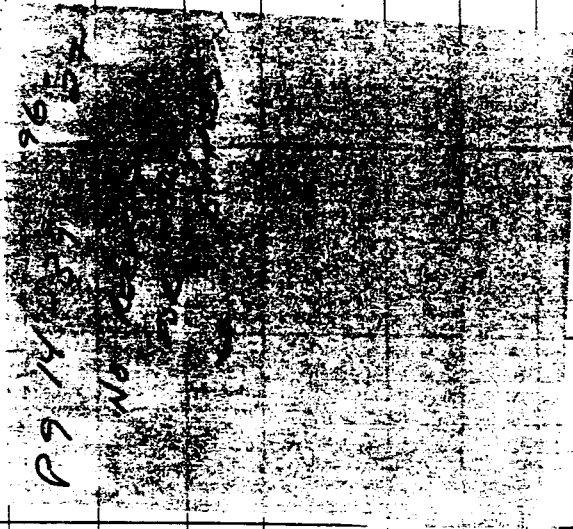
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
47				42.2-66.2 ARGILLACEOUS RHYOLITE LAPILLI (RHAT) TUFF							
48			35	Grey/brown to med grey rhyolitic tuff w/ grey to wht lapilli ranging from 1x4 cm to > core diameter							
49				thin bands/matrix w/ bio + some argillite							
50				lapilli content ↓ w/ depth, arg ↑ w/ depth							
51			40	strong foln, flattening, and layer parallel shearing.							
52			37	primary layering locally discordant							
53				 Example 49.1 m layering ↑ Foln							
54				traces of py along foln and in thin 2-3mm bands.							
55											
56											
57											
58											
59											
60											
61											
62				62.7 5 cm Qtz vn							
63				63.7 9 cm Qtz vn							
64											
65											
66				66.2-67.1 Fault							
67				75% recovery, crushed + broken frags of siliceous pale green rhy tuff							
68				30 cm gouge zone w/ sev + clay							
69				67.1-68.3 PALE GREEN/BROWN TUFF (TF1)							
				broken + platy core, pale green							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
93				90.9-102.9 INTERBEDDED ARGILLITE/WACKE (ARWK) Black shale/argillite with wacke beds to 20 cm thick shale is laminated - mm scale w/ thin 1-3mm qtz & CO ₂ stringers. Qtz stringers locally isoclinally folded, also rootless folds & fishhooks, grading in wacke units = top ↑								
94												
95												
96				isoclinally folded @ 96.4m	minor qtz veining - veins 2-3 cm @ 91.75, 99.3							
97				note: this sample pulled from creek garden	101.5-101.6 Qtz vein							
98					late cutting calcite veins ⊥ to foln							
99					mlen: abundant pyrite on late hairline sets and "point" along foln planes.							
100												
101												
102					basal contact highly deformed							
103					102.9-106.0 CALCAREOUS GREEN TUFF (TF4)							
104					lam to banded calc pale green tuff, local grey tuffaceous argillite interbeds							
105					105.7 - 1.5 x 3 cm lapilli							
106					104.2-104.4 } grey tuffaceous argillite 104.7-105.2 } core angle 30-40°							
107					106.0-109.4 ARGILLITE & WACKE (ARWK)							
108					Dark grey argillite - highly deformed, transposition foliation, rootless folds def. by qtz rich bands							
109					1-5mm sm fault (foln parallel) near upper contact. Lower contact arbitrary - change to relatively less deformed black shale.							
110					py on sets < 1%							
111					109.4-121.5 INTERBEDDED ARGILLITE & WACKE (ARWK)							
112					laminated black shale/argillite and greywacke, proportion of wacke ↓ w/ depth							
113												
114					109.9-110.1 Qtz vein							
115					110.7-110.9 Qtz vein w/ minor CO ₂ , sheared contacts 111.3 5cm Qtz vein							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
116				115.2 - 115.3 - cave, ground core, mostly qtz.							
117				mlen: splashes of py along fct surfaces							
118			50°	114.0 - 114.4 small fault parallel to core axis							
119				121.5 - 123.3 INTERBEDDED BLACK ARGILLITE / GREEN TUFF (ARGT)							
120				calcareous lg. pale green tuff							
121			40°	intbedd w/ black argillite/shale. gradational upper contact sharp basal contact @ 40°							
122				123.3 - 127.4 GREY SILICEOUS ARGILLITE (ARRH)							
123			40°	grey siliceous argl + blk sh							
124				platy + broken especially towards bottom. Rhyolitic component							
125				towards bottom - massive grey silica bands 3-5 cm.							
126			30°	+ tr py on foln parallel fct.							
127			15°	127.4 - 127.9 Fault zone (STFL) gouge + clay to 127.7, sheared arg + grey silica to 127.9							
128			50°	127.9 - 149.5 INTERBEDDED BLACK SHALE (ARWK) & WACKE							
129				platy black shale, locally graphitic, with layers of lg. dk grey wacke.							
130				% wacke increases down hole. lots of broken core - not the easiest stuff to drill.							
131			50°	Qtz veins:							
132				129.6 - 14 cm QV							
133				132.35 - 12.5 cm QV, mur CO ₂							
134				132.7 - 133.0 - QV + mur CO ₂							
135				129.1 - 129.6 graphitic w/ 10% py							
136			50°	146.7 - 146.9 QV							
137				Foln pretty constant 50° but local zones w/ differing grain size highlight transposition and layer parallel shear.							
138											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				(continued)							
139				lower contact faulted							
140				149.5-149.8 FAULT							
141				(STFL) 11 cm chloritic gouge underlain by 4 cm qtz vein and sheared chlorite schist. chloritic halo around fault in H.W.							
142											
143				5' 149.8-150.8 CALCAREOUS GREEN TUFF (TF4)							
144				Fine grained calc pale green tuff. upper + lower contacts faulted.							
145				149.8-150.0 - altered - SiO ₂ + chl with stringers of pø + cpy							
146				* this rock also in WU 96-25 - sulphides look remobilized - from where?							
147				50' 150.8-156.4 INTERBEDDED BLACK SHALE & WACKE (ARWK)							
148				laminated black shale intbdd w/ lg greywacke							
149				upper contact faulted, wk siln.							
150				153.7-153.9 Qtz vein							
151				154.0-154.1 small fault w/ qtz vein in middle							
152				154.7 - 7 cm qtz vein							
153				155.1-155.3 60% qtz, ground core							
154				156.4-161.0 INTERBEDDED BLACK SHALE / GREEN TUFF (ARGT)							
155				laminated black shale w/ thin (2-5mm) qtz bands and A bands of green tuff. some 5-8 cm thick wacke beds.							
156				50' 158.3-158.5 Qtz vein							
157				50' 158.9-158.94 Green Tuff w/ lam of py + cpy - sulphides are folded							
158				sketch perpendicular to main fault 159.6-159.8 green xtal tuff. esp phenos to 0.4 mm → calcite.							
159				159.9-160.0 green tuff							
160				20' 160.3 160.1-160.6 contorted blk shl. tight to recumbent folds in atz bands *							
161				contorted to 0.5 mm alt → calcite * note: these folds appear to retard the solution							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
149.8-150.2 P ₀ + CPY 3-5% PY 2-3%	77	149.8	150.0	0.2	104671				
158.9-158.94 thin (1-2mm) laminations of P ₁ + P ₀ + small 1x4mm clots of CPY parallel to S/n. one lam. of py is folded to around a small ctz frag. (lapilli?)									



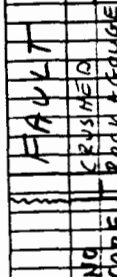
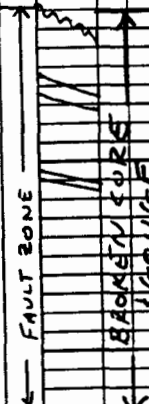
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
185				176.7-182.2 INTERBEDDED BLACK ARGILLITE / (ARGT) GREENTUFF							
186				Argillite is laticaceous, local lenses of silica, increasing downhole. Green tuff lg. but locally is xtal tuff							
187				w/0.5mm fsp xtals. lower contact arbitrary below green tuff.							
188				182.2-199.7 RHYOLITE FRAGMENTAL RHR							
189				Hgr to wht flattened fragments in black matrix upper 2 m is							
190				matrix > frags, changes to frags > matrix @ ~184.0m. traces of ss + cpv + py in argillaceous > matrix starting at							
191				182.4 < 1% (see mineralization)							
192				182.75-182.82 Fg dk brown rock w/gray lapilli and 1-2% pb along folia. clearly a rhyolite lapilli fragmental, fairly coarse, lap. from 2x4 cm to							
193				3x5 cm, mostly clast supported but there are some thin matrix supported sections @ top of unit.							
194											
195				this unit becomes somewhat arg. Porous in the lower 3-4 m, higher proportion of matrix and a few zones w/							
196				some minor green sericitic							
197											
198				lower contact gradational and picked at base of obvious fragmental.							
199				199.1-200.2 GREEN/BROWN ARGILLACEOUS TUFF LAYER.							
200				200.2-203.7							
201				RHR as above 182.2-199.1							
202											
203				203.0 sericitic ground cap							
204											
205											
206											
207											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
208				208.1-209.3 Ground core							
209				213.7-229.3 ARGILLACEOUS RHYOLITE (RHAT) LAPILLI TUFF							
210				similar to (RHFR) above but w/ increased argillite component							
211				Brown/green lg matrix w/cream to white lapilli + frags.							
212				occasional thin (5-10cm) layers of msu wht/gray rhy.							
213											
214				226.1-229.3 mostly massive grey rhyolite w/ zones of lapilli & black matrix							
215											
216				matrix sericitic, local zones of silu @ 223.3-223.9							
217				wk chl. unv py on fcls and silu planes.							
218											
219											
220											
221											
222											
223											
224											
225											
226											
227											
228											
229											
230											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
254	✓	✓									
255	✓	✓	30°								
256	✓	✓									
257	✓	✓									
258	✓	✓	broken								
259	✓	✓									
260	✓	✓	70°								
261	✓	✓		261.5-262.7 BROKEN ZONE - FAULT? gouge @ 261.7-261.9							
262	✓	✓		remainder is really broken core mostly of above flow unit							
263	✓	✓		262.7-264.0 GREEN/GREY RHYOLITE (RH#1) (FLOW)?							
264	✓	✓		similar to unit above broken zone w/ thin blk arg. partings							
265	✓	✓	NO RECOVERY								
266	✓	✓	60°	264.0-265.6 NO CORE (DHLC)							
267	✓	✓		265.6-267.0 GREEN/GREY BANDED RHYOLITE (RH#1) (FLOW)?							
268	✓	✓		banded green + green siliceous flow rock, rare relict qtz + fsp phenos.							
269	✓	✓		267.0-267.5 FAULT GOUGE clay/crushed + broken sil. rhy.							
270	✓	✓		267.5-273.3 GREEN/GREY/WHITE BANDED (RH#2) RHYOLITE							
271	✓	✓		lots of broken core - coherent pieces are banded rhy similar to flow units above but w/ 20% argillaceous component near lower contact. Tr py on foln.							
272	✓	✓		lower 1m grades into tan/brown siliceous rock w/ argillite bands.							
273	✓	✓		273.3-274.0 QUARTZ VEIN (QTVN)							
274	✓	✓		wht qtz vein, really broken, chl schist partings + inclusions, py on fctts. and py clots							
275	✓	✓									

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
277				274.0-278.2 Crushed and broken core w/some gouge zones Rock is chlorite + quartz schist (argillaceous rhy?) No core 277-278.0.							
278											
279				278.2-280.0 MAGNETITE IRON FORMATION (EXMT) Dk grn/blk mag. iron fm, banded cm scale to msu, pyritic (3-5%) throughout, broken + bxxd @ 279.3-279.5							
280				atz veins @ 278.4-278.52							
281				278.66-278.80							
282				280.0-280.3 PALE BROWN BANDED SILICEOUS (RHFS) ROCK altered volcanic glass?, poss. relict fsp phenos but mostly aphanitic silica rock.							
283											
284				280.3-280.4 MAGNETITE IRON FORMATION (EXMT) thin band of iron fm. similar to above iron fm. unit.							
285				280.4-280.7 QUARTZ VEIN (QTVN) wht qtz vein w/chlorite inclusions. unr. pyrite.							
286				280.7-282.0 PALE BROWN/CREAM SILICEOUS (RHFS) ROCK rare relict phenos of qtz + fsp. rhy + glass? Local contorted layering.							
287											
288				282.0-282.4 FAULT BRECCIA (STFB) mixture of gouge + breccia, cream colored siliceous fragments.							
289				282.4-284.0 CREAM/TAN SILICEOUS RHYOLITE (RHMS) occasional relict qtz + fsp phenos, brittle fract. perpendicular to foln. banded on cm scale sharp lower contact 80° to CA.							
290											
291				284.0-284.4 MAGNETITE-CHLORITE (EXMT) IRON FORMATION banded magnetite-chlorite ± pyrite iron formation, thin band w/ sharp upper contact. Lower contact core really ground up, unable to tell what the contact is like.							
292											
293				284.4-298.0 GREY/GREEN SILICEOUS (ZHFL) VOLCANIC totally ground core - like logging RC cuttings.							
294											
295											
296											
297											
298											
299											

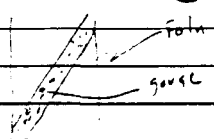
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
289.4-298.0				(continued) Fine grained banded siliceous volc (flow), platy, cm scale banding, locally mm scale, rare relict qtz phenos, tr py <<1% along foln.							
298.0-304.7			ARCB	DK GREY/BLACK ARGILLITE / SHALE laminated black shaly rock, thin bands of siliceous volc 3-5 cm, platy rock, abundant fishhooks & rootless isoclinal fold hinges defined by silica bands 1-5 mm in the shale, cutting by veinlets to 2mm along brittle fets. Locally graphitic							
304.7-309.8			STFL	FAULT ZONE really broken & ground black shaly rock, lots of gouge, looks like fault zone comprised of discrete gouge zones separated by intervals of crushed & broken black shale, locally graphitic, tr. py.							
305.4-305.7				Qtz vein							
306.6-306.7				Qtz vein							
309.8-316.4			ARCB	BLACK SHALE / ARGILLITE laminated black shale, core pretty broken & ground up.							
311.4-311.6				Qtz vein							
311.6-311.7				gouge zone tr py along foln & in late cutting brittle fets.							
316.4-317.6			STFL	FAULT crushed + broken cream to pale green silica rock mixed with clay gouge							
317.6-319.3				MIXED BLACK ARGILLITE / QUARTZ / PALE GREEN SILICEOUS VOLC. ground + broken core. Tr py dism + on fets.							
319.3-320.6			DHLC	No core							
320.6-323.7			RHFS	PALE GREEN BANDED SILICEOUS VOLCANIC mm-cm scale bands, no core							
322.7-323.7											
323.7-323.85			STGG	FAULT GOUGE black shale + clay							



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Au ppm	Ag ppm	Cu %	Pb %	Zn %	
		374.4	376.3	1.9	104720	250	-	.0008	.01	.01	
375		376.3	377.8	1.5	104719	125	25.5	.01	.08	.96	
377		377.8	378.6	0.8	104718	195	52.2	.08	.04	.26	
378		378.6	380.1	1.5	104717	395	96	.06	.23	1.5	
380		380.1	381.2	1.1	104716	210	21.9	.04	.03	0.12	
381		381.2	382.3	1.1	104695	1270	288.0	.24	1.77	10.9	
382		382.3	383.2	0.9	104696	1170	408.0	.63	3.27	21.2	
383		383.2	383.47	0.3	104697	1270	305.0	3.99	.64	6.18	
384		383.47	384.5	1.03	104698	450	160	1.4	.13	3.9	
385		384.5	385.9	1.4	104699	230	67.7	1.65	.14	4.38	
386		385.9	387.1	1.2	104700	60	12.2	.41	.05	4.81	
387		387.1	387.6	0.5	104701	210	50	.7	.43	11.9	
388		387.6	388.2	0.6	104702	40	8.3	.34	.04	3.44	
389		388.2	388.6	0.4	104703	80	11.9	.43	.05	7.63	
		388.6	388.9	0.3	104704	190	27.3	.88	.16	11.1	
390		388.9	390.1	1.2	104705	-	25.4	1.17	.1	7.49	
		390.1	390.7	0.6	104706	-	2.4	.07	.02	.57	
391		390.7	391.8	1.1	104707	145	34.5	1.79	.11	2.89	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
scale continued on next page		PMSG (cont'd)		Entire zone contains approx 30-35% sulphide and 65-70% argillite							
				384.2 - 5cm sulph. band w/coarse cpy (to 5mm) remob, wavy lam, cpy > sp							
				384.8 - 5cm band semi-msv cpy > sp, cpy remob into xcutting tension cracks some pφ assoc w/cpy.							
				385.8 - 4cm Zn rich band sp > cpy, cpy remob into xcutting tension cracks.							
			386.35-386.7 RHFL	MASSIVE TO BANDED RHYOLITE pale green grey silica rock w/ chlorite partings. Several thin bands of sp > py rich sulphide (up to 1cm) present in lower part of unit. Upper contact discordant w/ foln, lower contact sharp.							
			386.7-387.1 SPSSG	GREY SILICIFIED ARGILLITE WITH STRINGER SULPHIDES incl grey arg, lam to banded mnr → cm scale. Thin bands of sp + py + mnr cpy up to 7mm thick. sp > py > cpy							
			387.1-387.6 PMSM	SEMI-MASSIVE SULPHIDES banded sulphides w/ 10-15% sild arg. component. py > sp > cpy. local pφ near bottom of unit wavy, lensey foliation, py has local buckshot texture, some vugs + open space in msv. py.							
			387.6-388.2	MASSIVE GREY RHYOLITE same rock as 386.35-386.7. 387.7 - irregular discordant body of semi msv sulphide py > sp > cpy w/ mnr CO ₃							
			388.2-388.86	SEMI-MASSIVE SULPHIDES contorted banded semi msv sulph cpy rich to 388.35. py + cpy + sp. grey rhy to 388.6 w/stringer sulphides py > sp > cpy, contorted banding discordant w/ foln, semi msv py > sp > cpy @ 388.6-388.86 - banding parallel to foln.							
				poss. ripped up MS incorporated into rhy @ 388.7 + 388.6							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
392				389.86-390.1 LAMINATED BLACK ARGILLITE SSGG w/ SEMI MSV & STRINGER SULPHIDES							
393				siliceous (sild?) black argillite w/ bands of sp + py to 10 mm, most in 3-5 mm range. Approx 30% of interval is sulphide bands.							
394				bottom 30 cm is semi-msv w/ delicate bands of sp & py - cpy and clots of cpy to 3 mm.							
395				389.6 - very coarse pyrite, max = 7mm 389.9 - sp > py, coarse euhedral py to 6mm							
396				390.1-390.7 SILICIFIED & CHLORITE ALTERED RHMS RHYOLITE							
397				pale green/cream rhy w/ small 2mm qtz eyes and local texture suggestive of fragmental rock. Very strong silicification and chlorite alteration pseudo fragmental texture produced by alteration. core angle 50°							
398				390.7-391.8 STRINGER / SEMI MSV SULPHIDE RHMS (in silicified rhyolite)							
399				py > cpy > sp semi-msv bands at 390.7-390.79 (PMSG)							
400				390.83-391.20 (PMSG)							
401				391.2-391.8 silicified rhyolite similar to 390.1-390.7							
402				391.8-399.9 CHLORITE ALTERED RHYOLITE RHCL LAPILLI TUFF							
403				banded lap tuff w/ strong dk green to black chlorite alteration thin stringers (up to 2mm) of sph and pyrite, 3-5% of unit overall. Lapilli are altd to CO ₂ + mnr silica, chlorite altn decreases in intensity below 397.5 Lapilli to 3x6 mm.							
404				399.9-401.0 FAULT ZONE							
405				gougy + crushed sericitic tuff in hanging wall. Actual fault is at 401.0 - 2cm gouge @ 35° to CA Foln @ 60°							
406											
407											
408											
409											
410											
411											
412											
413											
414											



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		ppm Au	ppm Ag	% Cu	% Pb	% Zn
		390.7	391.8	1.1	104707	145	34.5	1.79	.11	.57
		391.8	393.2	1.4	104708	10	14.8	.64	.05	.68
		393.2	394.7	1.5	104709	5	18.2	1.01	.06	.76
		394.7	396.2	1.5	104710	5	5.8	.37	.04	.72
		396.2	397.7	1.5	104711	-	.3	.0044	.0024	.03
		397.7	399.9	2.2	104712	-	-	.0025	.0004	.02
		399.9	401.0	1.1	104713	-	-	.0012	.0006	.02
		401.0	402.3	1.3	104714	-	-	.0019	.0004	.01
		402.3	403.9	1.6	104715	150	-	.0024	.0006	.01

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverine	GROUND ELEV. 1488.2
HOLE NO. WU 96-28	BEARING 180
LOCATION 16 965.1 N 16 896.6 E	DIP -90
LOGGED BY GEOFF BRADSHAW	TOTAL LENGTH 393.2
DATE MAY 18	HORIZONTAL PROJECT
CONTRACTOR Caron	VERTICAL PROJECT
CORE SIZE HQ	ALTERATION SCALE
DATE STARTED May 5	0 1 2 3 absent slight moderate intense
DATE COMPLETED MAY 18	TOTAL SULPHIDE SCALE
DIP TESTS 35.5 - 178° - -89.5 152.4 139° - -84 274.3 210° - -75	0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS - massive sulphides from 371.6 - 376.3 total of 4.7 m. - no chlorite alteration under sulphides - no stringer sulphide zone - casing 28 feet - 8.53 m. - reduced to 40 at 179.6 m - CC-PY pyrite 326.9 - 334.6	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
47				445-58.0 ARMS - minor tufts comp. py along Fract - 1-2% locy lap w/ arg. mtrx.								
48												
49												
50		qtz vein		492-52.0 - qtz vein w/ argillites comp. chl altol.								
51				py veinlets cross cut foln (1mm) para to core axis.								
52												
53												
54												
55												
56												
57												
58												
59				580-66.1 TFI - lt bm - gm banded fgr ash tuff								
60				65.6 - 70 w/ py cubes to 5mm. py along fractures. <1%								
61												
62												
63												
64												
65												
66				66.1-74.6 ARTF - see next page								
67												
68												
69												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
70				56.1-74.6 ARTE mixed arg and tuff							
71				upper portion 3-4% py as							
72				lams and stars. (occ blebs)							
73				along fractures. sericitization							
74				along fractures. Transitional							
75				upper contact							
76				74.6-74.6							
77				74.6-94.7 ARMS - mass blk arg w/ min							
78				tufs comp highhalt. trace							
79				lap. <1% py along fractures and							
80				as lams. - some xcuts.							
81				78.7-78.8 gouge zone							
82				82.3-82.5							
83				gouge zone - upper contact at							
84				65° to 90°							
85				83.0-97. 50°							
86											
87				87.1-87.4 - FAULT GOUGE - Shear zone w/							
88				Folded arg lams w/ gouge intr.							
89				89.0-89.8 - increasing tufs comp							
90				(92.1-92.3 - gouge zone)							
91				lt arg (alteration) prob due to							
92				faulting							
				93.4-94.5 - Qtz vein. max cont							
				w/ arg. comp.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
93											
94		TF3									
95		TF3	45	94.7-96.2 TF3 - upper contact at 60° lower " at 70° 1t gm, banded clay altered tuff. 'loosy.							
96		TF3									
97				96.2-102.3 ARMS - mass black arg. min silica. py < 1% along fr.							
98		TF3									
99											
100		TF3									
101											
102		TF3		102.3 - uncon 80° - 100m - 55°							
103		TF3		103.4 TF3 - same as TF3 above							
104		TF3		103.0 - intensely folded banding bottom up + 1/2 De motion							
105				103.4 - 114.6 ARMS - same as 95.2-102.3							
106				106.8 - 1cm mass py band							
107				106.9 - 107.0 - gouge							
108											
109				109.0 - 109.2 gouge							
110				109.6 - 109.7 - gouge contacts at ~70° - more carbonaceous clay shale - (more E. dipping)							
111											
112											
113				113.5 - 113.5 - 2cm fr of iron at 70° N.E. 3.							
114											
115				114.5 - 115 - intense gouge - disrup- ed beds - siliceous							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
16		115.0		114.6-116.0 SUB BLK ARG W/ TUFF COMP lens on a mm scale 1-10 mm lens and lenses of silica and pyrom tuffaceous material							
17		116.0		bands often wavy and undulating upper contact faulted, minor contact sharp ~ 75°							
18		118.7		116.0-118.7 BANDED GRN-GRY CALG TUFF - calcareous bands siliceous (rhy) bands and oval frags. up to 5mm. Shp. Icon - 60° (lap)							
19		119.2		shear at 44° to ca - 116.1 sericite and chl altn (along join)							
20		123.6		118.7-133.6 BANDED GRY-BLCK SILICEOUS ARGILLITE WITH GRV WACKE INTERBEDS MIN tuffaceous component - bands near top contact up to 4cm							
21		123.7		Thin silica bands (mm scale) at lenses 5-15mm							
22		129.5		some thin siliceous - up to 5cm							
23		129.7		119.2 - 129.7 - physc relict pyrom rhy							
24		123.5		122.5 - 123.2 - pure wacke							
25		123.7		123.7 - 124.3 - quartz zone							
26		129.5		129.5 - 130.2 - gv w/ chl and a 10cm section of fault gouge							
27				- min calcareous - present							
28				- break serc altn. locy clots of py on foln (3-4mm) and host surfaces							
29				- quartzite beds up to 30cm							
30				and - with 2-3 lens of mm scale coarse grn size 2-4 grain fractures							
31				~1% very calc.							
32		133.6		133.6-134.7 FAULT GOUGE - extremely folded and crushed 2-7 mm qtz bands - ab sic comp							
33		134.7		134.7-135.9 BANDED TUFF - similar to 116.0-118.7							
34		135.9		TF4 con-faulted con sharp w/ 15cm gv							
35		135.9		calcareous - disrupted bedding							
36		135.9		135.9-150.5 GRN ARGILLITE WITH GRV WACKE INTERBEDS							
37				blk arg							
38				blk arg							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
139				145.6 - 148.3 - highly gouged - minor + iff out gen. blk sic arg. - some carb. - gouge and broken core							
140				- ool calc. lenses or bands 1160 veinlets which x-cut foln.							
141				- wacke beds up to 30 cm - contain mm ark- bands							
142				- clots of py or fracture surfaces this amt							
143				143.4 - 2.10 cm of green carb tuff - grey wacke w/ots waker gouged toward main contact -							
144				50.3 - 157.1 - car grey wacke with glt veins and clots. - calc.							
145											
146											
147											
148											
149											
150											
151				150.5 - 152.8 INTERBEDDED BLK ARG / GRN TUFF ARGT 30% blk arg w/ ark- bands on min scale and lenses - beds 1.1m - 1.6 cm							
152				30% grey-on tuff w/ carb. bands interbedded w/ arg - beds 1.1m - 1.6 cm beds not always continuous							
153											
154											
155				10% green arg - car CALCAREOUS 150.7 - arg - wacke frag in arg mtrix							
156				152.8 - 156 INTERBEDDED BLK ARG AND GREY WACKE ARGW similar to ARGW above -							
157				156 - 158 QUARTZ VEIN - w/ wispy arg bands and grt tuff clots - intervals of blk arg w/ silica and tuff parts on min scale. capped up tuff + arg mat w/ qv.							
158											
159				157.1 - foln 30° to core axis gouge zone interval - (some fault?)							
160											
161											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
200			70	RHFZ (cont.) continuation of fragmental and pyrite remains in fault zone.							
201				loose, fragments give way to mass. rhy. w/ serc bands.							
202											
203											
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~~70~~

~~70~~

~~70~~

~~70~~

~~218.6~~
RHFZ
218.6-262.8
RHFZ

216.2 - 216.4 - fault gouge - broken core.

fragments gradually give way to siliceous and sericitic bands

RHYOLITE FLOW - trad. uran. blk/dqm-wht very siliceous min SO₂ appears banded this is prob spfa. along partings (rdn) ser in bands 1mm thick - also forms masses 220.1 - 220.9 - highly altd zone - ser + chl 221.6 - 222.5 - fault gouge - sand and clay w/ atz pebbles more bed which create a phantom fragmental texture. Most intense alt in partings - dark green/grey on either side. massive w/ sic material far away evidence of relict atz/ep phenos (ex 222.7)

226.6 - 1mm band of far pyrite
226.8 - 227.8 in broken core

d. py. along altn bands << 1/6

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
231				231.4 phantom fragmental texture							
232											
233											
234											
235											
236											
237											
238											
239											
240				240.8-241.8 bc - altered zone some gouge heavy serc.							
241											
242											
243				242.4-243.5 inclusion - sized fault gouge							
244				243.0-243.6 - a more fragmental texture than phantom fragment - but may be the top of another flow unit							
245											
246											
247											
248											
249											
250				250.5 - C.D. 2 changes to 60° over about 5 cm. shearing obs.							
251											
252											
253											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
250											
255											
256				256.0 - qtz vein 3-4 cm sennite and chl. inclusions.							
257				257.5 - 257.8 broken core							
258				257.8 - end of unit - more intense chl out (see core out)							
260											
262											
263				262.8 - 268.5 FINELY LAMINATED SILICEOUS ARGILLITE ARSI moderately carbonaceous - gradational w/iron							
265				fine lam on mm scale. sic bands 1mm-1cm. 1% py throughout - clots 2mm flat with host foln. possible azurite microcl. in sic bands							
266				265.0 - 265.1 gv containing inclusions of k sp < 1mm							
267				(265.1 - 266.1 - broken core and gouge) py clots up to 1.2 cm. sharp iron.							
268				(267.1 - 4 cm - sharp brecciated gv. < 1% py along fractures.)							
269				268.5 - 271.4 APHANITIC GREY AND BROWN RHYOLITE RHMS sennite alt. (mod) possible flow unit							
270				mostly mass wht/gy. ool on sed. bands up to 5cm. < 1% py along fractures							
271				271.3 - blk core - white iron. (Faulted)							
272				271.4 - 274.7 BANDED MAGNETITE IRON FORMATION EKMT							
273				271.4 - 272.0 - fault to east							
274				bands of fine gr. massive magnetite mm-cm scale. with 1-2% py along fractures							
275				and fine gr. disseminated mt. throughout. min chl alt. + d. py throughout							
276				~30% sic component.							
277				274.2 - 276.6 APHANITIC GREY AND BROWN RHYOLITE RHMS							
278				short interval of - e same rhyolite							
279				is above.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AV ppm	AG ppm	CU %	PD %	ZN %
		271.4	271.9	0.5	104721	-	-	.0015	-	.0024
		271.9	272.1	0.2	104722	-	-	.0141	-	.0066
		272.1	273.1	1.0	104723	-	-	.0035	-	.0034
		273.1	273.9	0.8	104724	-	-	.0022	-	.0082
		273.9	274.7	0.8	104725	-	-	.004	.0018	.0246
		274.7	275.5	0.8	104726	10	.4	.0077	.0012	.0246

% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
				A	B	C	D	E		
			276.6-279.2 EXMT BANDED MAGNETITE IRON FORMATION Similar to above but a >1/2 of mass is massive silica. Long intervals of solid bit mass bit w/ silica bands 1-7cm wide. From 276.6-277.2 277.2-280.2 alternating bands of massive bit (with silic) and w/ int. fract. py. throughout weak chl altn.							
			279.2-289.8 RHMS MASSIVE WHITE/GREY RHYOLITE white-grey massive rhy. w/ weak sericite alteration fr py or disseminations and in bands <1mm. weak chl altn. relict Qtz. Ep phases. Common brittle fracture perp to foln.							
			284.4 - 288.0 - <i>unrecovered ground and brk core - 27m 2m</i>							
			(285-286.5 no core recovery.)							
			288.5-290.9 - <i>no core</i>							
			289.8-301.8 RCB BANDS CARBONACEOUS ARGILLITE AND IRON URON common with scale of siliceous bands 1mm-7cm thick some form lenses 5-4cm. Secondary Fe (291.9 - 292.1 - Fault gouge.) vertical cross cuts banding (291.2-291.4) and min with independent unit on the west side of fault. Unit is 291.2 and deformed min tifs 291.2 (294.1-294.2 - Fault gouge.) interstratified - 1/2 py is stringers in the argillite fractures - lots of disseminations local spc alteration - weak chl altn locally							
			297.7 - <i>no core</i>							

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47

GROUND CORE

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				Zn %
		FROM	TO	WIDTH		PV PPM	Pg PPM	Cu %	Pb %	
		276.6	277.2	0.2	104727	-	-	.0028	-	.002
		277.8	278.6	0.7	104728	-	-	.0043	-	.001
		278.5	279.2	0.7	104729	-	-	.0027	-	.002
		279.2	280.0	0.8	104730	-	-	.0073	.001	.033

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
300				(299.2 - 300.0 - 100% core)							
301				(300.6 - 300.7 - 100% core w/ argill. py. incl. sil. and sands)							
302				(301.1 - 301.8 - 100% core)							
303				(302.1 - 302.7 - 100% core argillite)							
304											
305				(305.5 - 307.8 - fault at 15° to c.l. - 100% core - (ch. down w/ 2mm offset on 1mm arg and sic bands.) (ligrow frags in (O) mt.)							
306											
307				305.9 - brecciated zone - frag arg + ob M ₂							
308				307.8 - 310.9 APHANITIC GREY/BROWN RHYOLITE RHMS very broken core 2-3 cm angular frags of white to grey sic material w/ 0.1-1 mm brown sed. bands. (Similar to 258.5 - 271.4)							
309				b.c. shp ucon. weak sericite alt.							
310											
311				310.9 - 317.0 LOST CORE - NO CORE RECOVERY DHIC							
312											
313											
314											
315											
316											
317											
318											
319											
320				317.0 - 323.0 FAULT ZONE WITH MAGNETITE STEL mixture of clay fine sand and angular fragments - very b.c. 317.0 - 320.0 - 30% core recovery * fragments contain up to 50% wt both mass and diss. intact core shows mainly sic rock - grey to green with sil. and bands of mass 1-2 mm thick - green fine brown and sil. alt.							
321											
322											

NO CORE RECOVERED

DIP

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AU	Ag	Cu	Pb	Zn
						PPM	PPM	%	%	%
		326.1	326.9	0.8	104731	35	-	.0064	.007	.275
		326.9	328.0	1.1	104732	15	-	.002	.06	.005
		328.0	329.2	1.2	104733	25	-	.0025	.053	.0022
		329.2	330.6	1.4	104734	-	-	.0057	.013	.0134
		330.6	331.4	0.8	104735	-	.2	.0063	.0034	.0856
		331.4	332.6	1.2	104736	15	-	.0042	.018	.0562
		332.6	333.5	0.9	104737	10	-	.0047	.019	.0732
		333.5	334.6	1.1	104738	-	.4	.0056	.028	.207

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
345.5				344.8-345.5 RANDED SILICEOUS ARGILLITE							
347				ARST 340.8-345.0 - intensely fractured arg w folded and cont. ss comp.							
348				345.0-345.7 - arg - more ss comp. of 200-300 μm greywacke (Ammonoite sp.) thin clay ss along frac. 1-2% py along lamms and fract.							
349				345.5-347.3 ssa - 341.4-344.8							
350				RHFS							
351				347.3-354.0 WHITE-GREY MASSIVE RHYOLITE							
352				RHMS bands on a mm-cm scale. late CO ₂ and (350.5-350.5 - gouge zone)							
353				fractures intense brittle fracturing (353.0-353.5 - fractured zone)							
354				wk. terra. fr. d. py.							
355				354.0-366.8 BLK CARBONACEOUS ARGILLITE							
356				ARCB blk carb. arg. arg. arg. w/ min sic component esp. in top of section - ucon. fract. arg. very broken core throughout.							
357				355.7 - small bitracted zone							
358				1mm - low sic bands and lens shapes							
359				very carbonaceous - 10cm arg.							
360				358.0 - fractures filled w/ late CO ₂							
361				1% py filling late k-cutting fract. lots along foln and diss.							
362											
363											
364											
365											
366											
367											
368				366.3-366.8 - ground core - miss. fault zn. faulted lam.							
369				366.8-368.3 TRYST. & THIC RHYOLITE - JIF							
370				RH/L							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AU ppm	AG ppm	CU %	PB %	ZN %
		366.2	368.2	1.4	104741	-	-	.0008	.0028	.0076
		368.2	369.2	1.0	104742	-	-	.0007	.0012	.006
		369.2	370.3	1.1	104743	-	-	.001	.0022	.009
		370.3	371.1	0.8	104744	125	4.2	.0024	.014	.22
		371.1	372.5	1.4	104745	180	20	.0096	.062	.201
See next page for sample #5										
		376.3	377.0	0.7	104758	450	5.2	.044	.016	.264
		377.0	378.0	1.0	104759	150	2	.0051	.013	.049
		378.0	379.2	1.2	104760	-	2.4	.003	.001	.0198

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				Detailed Description of Surfaces in Intersection							
				372.5-372.57 ZINC RICH MASSIVE SULPHIDES - 100% Fe-imp in a fine-grained matrix of sph.							
373.0				372.57-373.25 PYRITE RICH MASSIVE SULPHIDES - fine-grained or pyrite matrix of sph. to sph. blebs mostly bc - 372.8 - 373.25 - med-car. py.							
373.5				373.25-373.35 POLYMETALLIC SSMS - 35% semiticrystalline Car. py. massive and micritic of Car. & br. sph. - 1% py							
				373.35-373.5 Banded ARGILLITE type - sic and ser lams on mm scale. med-car. py. matrix of fine and disc.							
				373.5-373.7 PYRITE RICH ARGILLITE - matrix of argillite with w. imp. of py. & sph.							
374.0				373.7-374.28 PYRITE AND ARGILLITE - bc - mixture of argillite & py. frags and mass med-car. py. frags - 5% of the host here.							
				374.28-374.35 ZINC RICH SSMS - car. lamm "block of py" in a matrix of med-car. py. and sph. to py. py. fines downwards							
374.5				374.35-374.9 PYRITE RICH MASSIVE SULPHIDES - 80% fine gr. pyrite to py. sph. intermed sic blotches - the matrix is med-car. py. - but then obscured by min. car. argillite fractures. contrasts ambient matrix of b.c.							
375.0				374.9-375.35 BLACK CARBONACEOUS ARGILLITE - b.c. sh. imp. - fine-grained and blk. highly carbonaceous py. matrix of argillite - < 1% of arg. & py.							
375.5											
				375.35-375.95 PYRITE RICH MASSIVE SULPHIDES - 90% Fe-imp gr. py. - prominent infill of fractures.							
376.0				375.95-376.15 ZINC RICH SSMS - med-car. py. matrix of 1-5mm to 1cm size py. & sph. to py.							
376.5				376.15-376.2 PYRITE RICH ARGILLITE - med-car. argillite matrix - 1-4 mm py. blebs and cl. fr. total 5% of argillite - 1% of arg. & py.							

Diamond Drill Hole WV96-28

Summary Log of Sulphide Intercept

all depths in metres

average core angle = 70

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
371.6	372.5	0.9	Fault Zone: broken and ground up sand to granule sized carbonaceous argillite.
372.5 1.0	372.57	0.07	Zinc Rich Massive Sulphides: coarse grained 0.5- 1.0 mm pyrite in a very fine grained matrix of red brown sphalerite. The upper contact appears to be faulted.
372.57	373.25	0.68	Pyrite Rich Massive Sulphides: fine-medium grained pyrite with minor very fine grained disseminated sphalerite and trace blebs of 1-2 mm chalcopyrite. Mostly broken core from 372.8-373.25 consisting of medium-coarse grained pyrite rich pebble sized fragments.
373.25	373.35	0.01	Polymetallic Semi-massive Sulphides: interval contains approximately 35% moderately sericitized rhyolite, and 65% massive sulphides. Mainly massive to crudely banded coarse grained pyrite within a patchy discontinuous matrix of very fine grained sphalerite. 1-2% chalcopyrite occurs as 1-2 mm blebs. Gradational lower contact.
373.35	373.5	0.15	Banded Tuffaceous Rhyolite: siliceous and sericite banding on a mm scale. Medium to coarse grained pyrite occurs as bands up to 5 mm and as disseminations.
373.5	373.7	0.2	Pyrite Rich Felsite: most of interval is broken core consisting of a sericite and chlorite altered siliceous rock with approximately 30% coarse grained pyrite.
373.7	374.28	0.58	Pyrite and Argillite: broken core is a mixture of 50% angular black argillite fragments and 50% massive medium-coarse grained pyrite fragments. Approximately 50% of the core not recovered here.

374.28	374.35	0.07	Zinc Rich Massive Sulphides: coarse 1 mm "buckshot" pyrite occurs within a matrix of banded fine pyrite and sphalerite. Pyrite becomes finer grained towards the bottom of the interval. Trace disseminated chalcopyrite.
374.35	374.9	0.55	Pyrite Rich Massive Sulphides: 85% fine grained pyrite and trace very fine sphalerite with 15% banded siliceous material. CO ₃ fills late fractures. Contact relationships obscured by broken core.
374.9	375.85	0.95	Black Carbonaceous Argillite: mainly broken core, sharp lower depositional contact. Finely laminated with a minor siliceous component. << 1% very fine disseminated pyrite.
375.85	375.95	0.1	Pyrite Rich Massive Sulphides: 80% fine-medium grained pyrite. Prominent late infilling of fractures with CO ₃ .
375.95	376.15	0.2	Zinc Rich Massive Sulphides: coarse grained pyrite within matrix of massive 1-5 mm sphalerite bands and fine grained pyrite bands. < 1% chalcopyrite as 1 mm clots.
376.15	376.3	0.15	Pyrite Rich Rhyolite: weakly sericitic rhyolite with approximately 5% pyrite as 1-4 mm bands and clots. Infilling of fractures with CO ₃ .
376.3	376.4	0.1	Quartz Vein: white quartz vein containing wispy black argillite within fractures. Possible fault contact with above unit.
376.4	393.2	16.8	Sericitic Rhyolite Lapilli Tuff: footwall consists of a pale green to grey intensely sericitized rhyolite lapilli tuff composed of silica bands and lenses from 1-5 mm. Sericite forms <1mm dark green to black laminations with a pale green alteration halo. Minor argillite component forms occasional mm scale laminations. Trace <<1% disseminated pyrite.

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-28	271.40	271.90	0.50	104721
WV96-28	271.90	272.10	0.20	104722
WV96-28	272.10	273.10	1.00	104723
WV96-28	273.10	273.90	0.80	104724
WV96-28	273.90	274.70	0.80	104725
WV96-28	274.70	275.50	0.80	104726
WV96-28	276.60	277.80	1.20	104727
WV96-28	277.80	278.50	0.70	104728
WV96-28	278.50	279.20	0.70	104729
WV96-28	279.20	280.00	0.80	104730
WV96-28	326.10	326.90	0.80	104731
WV96-28	326.90	328.00	1.10	104732
WV96-28	328.00	329.20	1.20	104733
WV96-28	329.20	330.60	1.40	104734
WV96-28	330.60	331.40	0.80	104735
WV96-28	331.40	332.60	1.20	104736
WV96-28	332.60	333.50	0.90	104737
WV96-28	333.50	334.60	1.10	104738
WV96-28	317.40	320.50	3.10	104739
WV96-28	320.50	323.00	2.50	104740
WV96-28	366.80	368.20	1.40	104741
WV96-28	368.20	369.20	1.00	104742
WV96-28	369.20	370.30	1.10	104743
WV96-28	370.30	371.10	0.80	104744
WV96-28	371.10	372.50	1.40	104745
WV96-28	372.50	372.57	0.07	104746
WV96-28	372.57	373.25	0.68	104747
WV96-28	373.25	373.35	0.10	104748
WV96-28	373.35	373.50	0.15	104749
WV96-28	373.50	373.70	0.20	104750
WV96-28	373.70	374.28	0.58	104751
WV96-28	374.28	374.35	0.07	104752
WV96-28	374.35	374.90	0.55	104753
WV96-28	374.90	375.85	0.95	104754
WV96-28	375.85	375.95	0.10	104755
WV96-28	375.95	376.15	0.20	104756
WV96-28	376.15	376.30	0.15	104757
WV96-28	376.30	377.00	0.70	104758
WV96-28	377.00	378.00	1.00	104759
WV96-28	378.00	379.20	1.20	104760

WV96-28

Avg. Core Angle = 60

sample # Rxtyp	Zone	From	To	interval	tt(m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ba(ppm)	S.G.	As (ppm)	Sb (ppm)	Hg (ppb)
104746 ms	MS	372.50	372.57	0.07	0.1	0.75	233	0.28	2.54	18.8	-9	-9	-9	-9	-9
104747 ms	MS	372.57	373.25	0.68	0.6	0.89	185	1.36	0.88	13.1	-9	-9	-9	-9	-9
104748 rhy	MS	373.25	373.35	0.10	0.1	0.51	120	0.93	0.38	11.7	-9	-9	-9	-9	-9
104749 sms	MS	373.35	373.50	0.15	0.1	0.62	144	0.21	0.41	2.92	-9	-9	-9	-9	-9
104750 sms	MS	373.50	373.70	0.20	0.2	1.65	178	0.51	0.61	6.14	-9	-9	-9	-9	-9
104751 ms	MS	373.70	374.28	0.58	0.5	0.89	219	0.49	1.08	12.3	-9	-9	-9	-9	-9
104752 ms	MS	374.28	374.35	0.07	0.1	1.71	559	0.6	2.32	15.7	-9	-9	-9	-9	-9
104753 ms	MS	374.35	374.90	0.55	0.5	2.43	627	0.48	2.49	7.86	-9	-9	-9	-9	-9
104754 arg	MS	374.90	375.85	0.95	0.8	0.65	130	0.31	0.15	1.27	-9	-9	-9	-9	-9
104755 ms	MS	375.85	375.95	0.10	0.1	3.39	521	0.47	2.04	7.54	-9	-9	-9	-9	-9
104756 ms	MS	375.95	376.15	0.20	0.2	2.81	329	0.43	1.69	13.8	-9	-9	-9	-9	-9
104757 sms	MS	376.15	376.30	0.15	0.1	0.72	213	0.44	0.46	5.42	-9	-9	-9	-9	-9
Massive Sulphide		372.50	376.30	3.80	3.3	1.24	262.0	0.64	1.44	11.22	-9	-9.00	-9	-9	-9

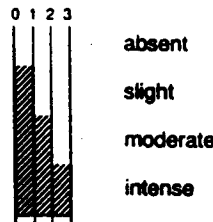
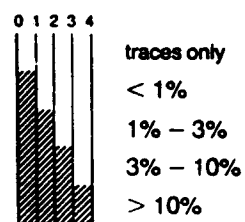
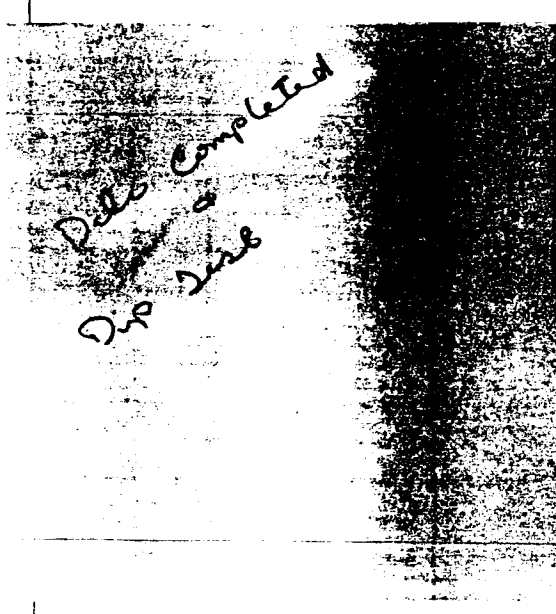
HARLAN

104746 had
wrong interval
last time - slipped
through our checks.

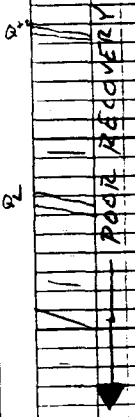
sorry

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverine Lake</i>	GROUND ELEV. <i>1465.4</i>
HOLE NO. <i>WV96-29</i>	BEARING <i>0° GN</i>
LOCATION SECTION <i>16931.7 N 17000.0 E</i>	DIP <i>-60°</i>
	TOTAL LENGTH <i>633.1 metres</i>
LOGGED BY <i>P. Thurston / G. BRADSHAW</i>	HORIZONTAL PROJECT
DATE <i>May 15 - May 30</i>	VERTICAL PROJECT
CONTRACTOR <i>Caron Diamond Drilling</i>	ALTERATION SCALE 
CORE SIZE <i>HQ, Reduce to NQ at 112 ft. (34.1 m)</i>	TOTAL SULPHIDE SCALE 
DATE STARTED <i>MAY 11, 1996</i>	
DATE COMPLETED	
DIP TESTS	LEGEND
COMMENTS <i>Top of hole really broken, casing to 48', reduce to NQ at 112', Tricone top of hole to clean up prior to coring w/ NQ. mineralized black argillite at projected ms horizon base =</i>	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0-6.7				Overburden							
6.7-19.6		FINE SILICEOUS VOLCANIC & BLAKE ARGILLITE		ground up core - poor recovery. mixed banded rhy tuff + shale oxidized - FeOx on folia + along folia.							
				7cm qtz vn @ 12.2							
				11cm qtz vn @ 15.8							
				bits of broken qtz @ 16.95-17.2							
19.6-44.1		GREY/GREEN BANDED TO MASSIVE RHFL RHYOLITE		banded siliceous volc. (rhy?) diam folia @ 70° to core axis, poor recovery, lots of rounded gravelly core. Strong oxidation (FeOx) to 29.0 m, unit becomes more massive 29.9-44.1 m. note: poor recovery, tricone to m after casing removed. Reduce to NQ at m.							
				strong oxidation to 29.0 m							



30 Note scale change

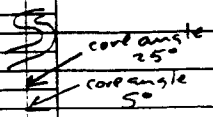
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
39				44.1 - 73.4 DK GREY/BLACK ARGILLITE ARMS laminated blk argillite, fault gouge on upper contact, variable core angle ~10° @ 241 to 40° @ 70.7							
40				generally fine banded laminated black argillite w/ thin (1-2 mm) siliceous partings, locally calcareous							
41				pretty poor core recovery, lots of busted up core to 67 m.							
42											
43				68.0-68.6 Small fault - gouge + crushed argillite							
44											
45				71.1-71.3 Quartz vein w/ chlorite + 1-2% P1							
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											
61											
62											

BROKEN CORE

BROKEN CORE

core angle 10°

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.		
					A	B	C	D	E				
86	33%	[diagram]	[diagram]	86.5-96.3 MED - DK GREY RHYOLITE w/ ARG RHMS									
87													
88													
89													
90													
91													
92													
93													
94													
95													
96	46% 21%	[diagram]	[diagram]	96.3-102.8 BLACK ARGILLITE ARMS									
97													
98													
99				102.8-105.0 GREY RHYOLITE RHMS									
100				103.0-108.7 DK GREY ARGILLITE ARTF?									
101													
102													
103													
104													
105													
106													
107													
108													

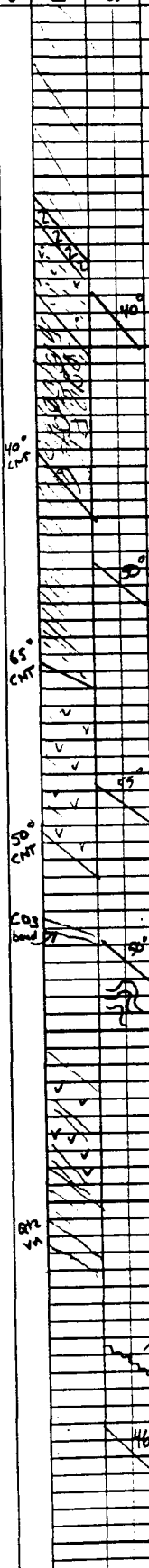


@ 103.6
Thin (4.0cm) qtz vn @ 104.3
lower contact sharp.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
109.7-114.9				ANDESITIC TUFF coarse grained lt. green - med green weakly calc. tuffaceous rock. upper 20cm is fine banded tuff then coarse lithic frags. consisting of subrounded qtz-fsp porphyry, silica. frags range from 2-10 mm in size, avg size ~ 5mm, traces of leucokene (?), foln at very low angle to core axis.							
113.6-113.9				Qtz vein + CO₂ - Very distinctive unit - lower part grades into interlayered coarse & fine grained green tuff.							
111.2-111.5				Qtz vein w/coarse chl - lots + green tuff frags + CO₂							
113.6-113.9				Qtz vein + CO₂							
114.9-116.1				INTERLAYERED BLACK ARGILLITE & GREEN TUFF banded to lam blk arg + green tuff (10%) with 15% siliceous bands to 1cm thick. 5% calcareous bands, to 2y.							
115.5-115.6				Qtz vn.							
116.1-119.5				BANDED BLACK ARGILLITE ARMS lam to banded blk arg w/15% silica bands. may CO ₂ bands							
117.5-117.7				Qtz vn, bxd							
119.5-119.7				FAULT GOUGE STGG black fault gouge + crushed argillite							
119.7-157.3				INTERBEDDED BLACK ARGILLITE ARWK & GREY FG, WACKE turbidite rocks - laminated blk argillites intbed w/ fine sandy wacke beds. upper part of unit to ~ 132m 60% wacke/40% mud, middle of unit 60% mud/40% wacke, lower part mostly argillite w/ ~ 5% siliceous bands.							
140.5				12 cm green tuff							
141.3				8 cm green tuff							
133.9, 156.0				minor CO ₂ bands at 133.9, 156.0							
				core angle averages 40° locally up to 65°							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
132				ARWK (continued) traces of py along foln throughout, <1%, rootless							
133				Gold in mud units defined by silica bands							
134				156.5 CO ₂ band - 3 cm							
135				157.3-157.6 FAULT gouge + broken zone in carbonaceous							
136			60°	blk argillite, small fault only .1 m of gouge							
137											
138			45°								
139			45°								
140											
141											
142			65°								
143											
144			45°								
145											
146											
147			60°								
148											
149											
150			45°								
151											
152			45°								
153											
154											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
155				157.6-158.7 BANDED CALCAREOUS GREEN TUFF							
156				pale green fine grained calcareous tuff. laminated to banded on cm scale. sharp upper + lower contacts, chloritic thin grey arg. band @ 158.0							
157				158.7-159.9 BLACK ARGILLITE ARMS							
158				laminated blk arg. llite w/ thin wacke bands near bottom and thin grey tuff bands in middle rhy frags (lapilli?) present locally + tr. dism py on fctg.							
159				159.9-160.9 RHYOLITE FRAGMENTAL RHFR							
160				light grey to white rhy fragmental rock w/ jagged black partings between frags. some rock as noted in previous 1996 holes. Tr. dism py along blk micaceous partings. Frags to 1.5 x 6 cm sharp upper contact, gradational lower contact							
161				160.9-163.8 BLACK ARGILLITE ARMS							
162				lam. blk arg w/ 5% volcanic component and 5% wacke + tr. dism py and py in fctg sharp lower contact							
163				163.8-166.4 BANDED GREY/GREEN RHYOLITE RHFS							
164				fine gr aphyric banded rhy bands 1-4 cm thick separated by chloritic partings 1-3 mm thick clastic component towards bottom.							
165				165.8 - D ϕ + CPY in 5mm siliceous band							
166				166.1 - pyritic lapilli? 7mm x 15mm + tr. py on fctg. sharp lower contact.							
167				166.4-177.9 INTERBEDDED BLACK ARGILLITE & WACKE w/ VOLCANIC COMPONENT ARWK							
168				lam blk argillite w/ volcanic component increasing down hole thin layers of silica to 3 mm intbed at top to ~169.5m. Tr. py on fctg.							
169				169.5 - 171.2 m mixed rhy/arg							
170				171.2 - 172.0 broken up black sooty argillite							
171				172.0 - 172.3 QTZ vein							
172				172.3 - 177.0 Argillite w/ wacke interbeds							
173				172.0 - 177.9 50% volc lenses + interbeds in argillite							
174											
175											
176											
177											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
179	55% CNT			166.4-172.9 (continued) lower contact gradational and based on color change							
179				172.9-177.99 CALCITE PYRRHOTITE ROCK							
179				9 cm band containing 40% net textured to banded pyrrhotite in the upper 5 cm and coarse recrystallized CO ₃ in the lower 4 cm. Shows upper + lower contacts. mnr SiO ₂ , mnr chl altn. Also traces of vfg cpy.							
182	20% CNT			177.99-180.5 CALCAREOUS BANDED GREEN TFA TUFF (Andesitic?)							
183				fine gr calc. tuff, lt green banded on 2 mm - 1 cm scale. Abundant CO ₃ bands to 3 cm thick.							
185				178.3 Discordant Qtz-CO ₃ vein w/chlorite							
185				178.6 15 cm Qtz-CO ₃ vein							
185				179.5 14 cm Qtz-CO ₃ vein fair bit of sericite also.							
187				180.5-192.2 BANDED BLACK ARGILLITE & WACKE ARWK more turbidites lower contact faulted. upper 1/2 of unit dominated by argillite, lower 1/2 dom. by wacke banded on cm to + cm scale except for lam. arg/shale rocks. + rpy on folia + in thin sub mm veinlets. locally calcareous but not much.							
191				192.2-196.4 FAULT ZONE upper 10 cm is blk gouge, remainder is strongly sheared black argillite with bits of aphyric siliceous material in 2-4 cm bands.							
193				193.8-194.2 sheared green phyllite w/ Qtz vein							
194				lower part below 194.2 is slightly less sheared than upper part but still strongly deformed. Tight folding apparent throughout zone.							
197				196.4-196.7 Quartz-carbonate vein 90% Qtz / 10% wht CO ₃							
199				196.7-202.8 BLACK ARGILLITE & WACKE ARWK lam blk arg w/ wacke interbeds up to 20 cm thick. Tuffaceous component towards base of unit							

FAULT ZONE
 SHEARED ROCK
 BROKEN CORE

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
201				196.7-207.8 (continued) lower contact gradational (into mixed tuff/argillite) and somewhat arbitrary. Lg py on fets + foln << 1%								
202	29%			202.8-214.5 INTERLAYERED ARGILLITE + GREEN ARGILLITE TUFF								
203				fg blk lam argillite intbdd w/ layers of calcareous green tuff (andesitic?). Tuff layers 0.5-15cm. + r py. Volc. component in argillite.								
204				tuff layers thicker + sometimes xtal rich towards base of unit.								
205				206.4-206.7 thin grey vby layer, contorted layering/foln.								
206				207.4 13x77 mm grn tuff clast in blk arg matrix.								
207				Proportion of gm (calc?) tuff increases towards base of unit lower contact gradational and somewhat arbitrary.								
208				214.5-218.3 PALE-GREEN/BROWN BANDED TUFF								
209				finely banded aphyric tufaceous volcanic. mm-cm scale green + brown alternating bands, local silica rich massive dk. green bands chlorite - sericite - biotite? - silica rock. locally calcareous, some textures look like they used to be glassy. Prob. an ash tuff								
210				216.8-216.9 Qtz vein								
211				217.0-217.25 Qtz-CO2 vein								
212				lower contact sharp and marked by change to dk grey argillite.								
213				218.3-219.7 ARGILLITE + LAPILLI TUFF								
214				RHAT? banded dk grey argillite w/ siliceous lapilli + silica bands, some thin ~1cm green lit bands, more lapilli rich towards base.								
215				prismatic py xstals in cutting qtz veins some open space. Thin silica bands increase ↓ hole.								
216				219.7-220.3 QUARTZ-CO2 VEIN								
217				massive wht qtz w/ late CO2								
218												
219												
220												
221												
222												
223												


DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
247											
248											
249											
250											
251											
252											
253											
254											
255											
256											
257											
258											
259											
260					259.7-260.5 QUARTZ VEIN minr (O ₂ veinlets some frags of rhy.						
261					260.5-263.9 RHYOLITE LAPILLI TUFF (Argillaceous) RHAT dk blk/grn matrix w/ 40% silica lapilli, sometimes massive aphyric rhyolite lapilli 3x6 mm avg size.						
262					263.9-264.5 FAULT ZONE crushed, broken & sheared argillaceous Rhyolite, lots of angular fragments						
263					264.5-269.7 FRAGMENTAL RHYOLITE RHFR similar to 239-259 m. wht ragged to avoid fragments in blk matrix, tr dism py and rare pφ						
264					269.1 - broken zone brittle fctz						
265											
266											
267											
268											
269											

QV

Broken
zone

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
270	25%			269.7-271.3 PALE GREEN/WHITE BANDED ZHH1 RHYOLITE aphyric massive to banded rhyolite green/white bands, really broken core							
271				271.3-272.5 FAULT ZONE highly sheared blk org matrix w/ lenses of silica + clay, core							
272				272.5-272.8 ZHH1 30°/CA mostly gravel but one 15cm chunk w/ good ductile shear fabric.							
273				272.5-280.6 BANDED GREY/GREEN RHYOLITE ZHH1 grey to green/white banded aphyric rhyolite, locally lapilli rich but mostly massive banded rock. bands del by chloritic partings and color change to py, not much mod. chl. altn.							
274				280.6-280.8 FAULT 30° to core axis, shattered rock, late brittle fault.							
275				280.8-327.3 BANDED LAPILLI/ASH TUFF? ZHAL? thick section of variable green banded silicic volcanic rock. Several textural varieties present ranging from banded aphyric rhyolite to green banded rhy lapilli tuff. lumped as one unit because contacts are very gradational and discrete subdivisions hard to define. Overall the lapilli content increases down hole. lower 10m is more aug. rareous.							
276				285.5-290 ground core 294.3-294.5 Qtz vein w/chlorite clots							
277				285.5-290 ground core 294.3-294.5 Qtz vein w/chlorite clots Rock is generally platy and core is pretty broken - 3-7cm pieces							
278				traces of pyrite throughout unit along fault and in 2mm size scale + units							
279											
280											
281											
282											
283											
284											
285											
286											
287											
288											
289											
290											
291											
292											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH								
329												
330			rhyolite	329.8	331.2	1.4	104762	10	-	.0068	-	.0056
331			Iron Em.	331.2	332.4	1.2	104763	5	-	.0038	-	.007
332			Rhyolite	332.4	332.8	0.4	104764	5	-	.0068	.0006	.00196
333			Iron Em.	332.8	333.5	0.7	104765	-	-	.0013	-	.0018
334			Rhyolite	333.5	334.9	1.4	104766	5	-	.0069	.0006	.1505
335			rhyolite	334.9	336.3	1.4	104767	-	-	.0055	-	.0016
			Rhyolite	336.3	337.6	1.3	104768	10	-	.0053	.001	.006
			Iron Em.	337.6	338.0	0.4	104769	125	-	.005	-	.0054

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QZ	
					A	B	C	D	E			
379.1-382.8			GROUND CORE	FAULT ZONE shredded argillite & some massive siliceous bxx and some zones. 3mm dia band concrete deformation appears to be brittle w/ slip along grain in arg x crushing in more competent sections.								
382.8-392.6				MASSIVE TO BANDED RHYOLITE ZNFLOW?								
392.6-393.6				same rock as 361-375. Dark grey aphanitic silica rock, banded. $\approx 397.2-398.2$. base. abundant chlorite & kaolinite								
393.6-396.8			FAULT ZONE	grey argillite, siliceous arg mineral w/ thin 7 spp. to cm fractured w/ brittle core axis.								
396.8-397.5				QUARTZ VEIN white etc w/ some and some cuts approx 1% for but no is ~ 1cm dia. lower cut = lots of chl.								
397.5-401.7				BANDED/MASSIVE GREY SILICA RHMS ROCK - dark black aphanitic rock w/ disseminated and bands of Fe silicifying pyrite a lot of the surface covered as round grains w/ idiosyncratic form formed by a black mineral \rightarrow 								
401.7-405.5				CARBONATE-XYLITE "SANDSTONE" med-dk grey silicified banded to lam on 2mm scale. py silicified dissem in silicified and silicified bands 2 to 5mm thick w/ silicified spherulites								

PAGE	OF	PROJECT:	HOLE NO. 98-29							
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						
CC-Py Exhalite		401.4	403.0	1.6	104779	15	-	.0033	.047	.0562
Ex		403.0	404.3	1.3	104780	10	-	.0022	.052	.0018
Ex		404.3	405.5	1.2	104781	15	-	.0029	.104	.0128
Silica-Py Rock		405.5	405.9	0.4	104782	10	-	.0061	.013	.117
Ex		405.9	407.1	1.2	104783	5	-	.0022	.0022	.0078

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
-08				405.5-405.9 GREY SILICA - PYRITE ROCK banded med-dle gray silica rock w/bands as in to 4 mm thick								
-09				405.9-407.1 CARBONATE ± PYRITE ROCK similar to 401.7-405.5 but little to no pyrite (<<1%) local py + sph?								
-10				at lower contact assoc. w/qtz vein								
-11				407.1-409.2 SILICA - PYRITE ROCK banded gray silica & pyrite py bands to 5 mm, late cutting CO ₂ veins to 3 mm local "spotted" pyrite grains up to 0.5 mm in diameter								
-12				409.2-409.8 GREY CARBONATE ROCK + QTZ VN. gray CO ₂ to 409.3 Qtz vn to 409.35, gray CO ₂ to 409.48 Qtz vn to 409.55 wht CO ₂ to 409.8								
-13				409.8-410.7 GREY/WHITE BANDED to MSV RHYOLITE RHMS? really broken core, looks like xtal tuff but hard to tell, silica clumping, lower contact faulted								
-14				410.7-411.6 FAULT sericitized zone + shattered rock. 5cm CO ₂ vn @ base.								
-15				411.6-414.2 BANDED SILICA ROCK/ARGILLITE RHAR? delicately banded silica and black argillite with abundant pyrite and traces of sphalerite? in thin bands and disseminated. Looks like mix of re-sedimented rhy. + mudrock.								
-16				414.2-416.6 CARBONATE - PYRITE "EXHALITE" ROCK EKCP laminated wht to gray CO ₂ w/py bands up to 3mm thick, local sph, 20% interlayered in green/brown mudstone. cutting CO ₂ veins to 1cm thick, one vein is 3.5cm thick. white of py to 1cm. thin veining on veinlets near base. 8cm at base								
-17				416.6-420.8 CARBONACEOUS BLACK ARGILLITE ARCB laminated blk arg., locally graphitic w/up to 25% fine dism and banded pyrite								
-18				418.8 band of wht silica w/up to 40% py in clots, some in looks broken & bxd								
-19				419.8 15cm band of wht silica w/30% py (see next page)								

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PAGE 106 OF 107		PROJECT:				HOLE NO. 36-29				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Ag PPM	Cu PPM	Pb %	Zn %	
		407.1	408.1	1.0	104784	15	-	.0055	.016	.564
		408.1	409.2	1.1	104785	15	-	.0045	.0086	.0918
		409.2	409.8	0.6	104786	10	-	.0052	.005	.0086
		409.8	410.7	0.9	104787	5	-	.0052	.0018	.0342
		411.6	412.9	1.3	104788	15	-	.0072	.034	1.27
		412.9	414.2	1.3	104789	15	-	.0063	.0186	.645
		414.2	415.4	1.2	104790	30	-	.0036	.02	.326
		415.4	416.5	1.2	104791	20	-	.0054	.032	.213
		416.5	418.0	1.4	104792	35	1.0	.0056	.028	.0834
		418.0	419.5	1.5	104793	35	1.2	.0025	.027	.08
		419.5	421.0	.5	104794	10	1.4	.0032	.0316	.0108
		421.0	422.5	1.5	104795	10	-	.001	.0056	.0884
		422.5	423.3	0.8	104796	5	-	.0006	-	.0044
		423.3	424.8	1.5	104797	-	-	.0011	-	.0018
		424.8	426.3	1.5	104798	-	-	.0017	.0028	.0222
		426.3	427.5	1.2	104799	5	-	.0028	.009	.0864
		427.5	429.1	1.6	104800	-	-	.0008	-	.0026
		429.1	429.2	1.5	104801	-	-	.0006	-	.002

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
431			45°	416.6-420.5 (continued) Below 419.8 rock is tightly folded							
432			FLT	420.4 grey folded silica-pyrite band abundant x-cutting CO ₂ bands base of unit - orange mineral - CO ₂ - silica veins etc.							
433			7	420.8-423.3 GREY ARGILLITE							
434			5	ARMS - sericite + chlorite alt'd blk/gray argillite w/ wispy py + mnr sph? abrupt change in core angle from ~45° to ~20°; core angle back to ~45° @ 427.1 m							
				423.3-427.5 QUARTZ VEINS swarm of Qtz veins in blk ser alt'd argillite. veins are mottled with Qtz w/ patches chlorite, chunks of CO ₂ or py, and fragments of wallrock.							
				423.3-423.6 Qtz vein							
				424.5-425.1 Qtz vein							
				425.5-426.1 Qtz vein - lots of chl.							
				426.7-427.4 Qtz vein - chunks of CO ₂ + py lots of sericite							
				427.5-430.7 SERICITIC LAPILLITOFF/ARGILLITOUS RHAT grey to argillite sericite lapilli. full fine grained, siliceous bands to 3-4 mm and laminated muddy looking siliceous layers fr py, lapilli to 2x4 mm, 10-cm Qtz vein at base.							
				430.7-432.4 FAULT ZONE Pyritic black arg to 431.0 - veins of py. breccia - rhy frags in arg to 431.2 looks like bits of Qtz also angular frags. fractured silica rock (banded) to 431.7 discrete fault plane @ 60° to CA - 431.7 graphitic ore + fault box to 432.2							
				432.2-432.4 Qtz vein							
				432.4-433.7 BLACK ARGILLITE ARMS tuberculous component, thin py. stringers, abundant rootless isoclinal folds def. by silica bands 1-2 mm thick. py bands to 3 mm.							

scale continued on next page

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
435				433.7-434.2 Quartz Vein inc. chunk of sild. rhy.							
436				434.2-438.2 INTERBEDDED BLACK ARGILLITE RHYOLITE							
437				1cm blk arg / grey siliceous rhy, rhy layers cm scale, lots of py in argillite upper contact carbonized, lower contact = Qtz vein							
438											
439				438.2-451.3 PALE GREEN BANDED RHYOLITE							
440				214FL green/grey to grey banded rhyolite mostly aphyric but a bit of silicified zone & sil shows some thin banding							
441				mostly on 5mm - 1cm scale local zones of lapilli banded							
442				mod sil on surface							
443				439.7-438.5 Qtz vein							
444				442.9-443.0 - Sugary wht CO ₂ band 445.7 - 8cm grey CO ₂ band w/ qtz borders 445.8 - 446.0 - dk grey more argillaceous band							
445				449.5-450.2 - slaty argillaceous mainly band siliceous with some mod sil on surface							
446											
447											
448											
449											
450											
451				451.3-452.4 BANDED SILICEOUS ARGILLITE - blk RSI							
452				banding 1-2 mm silicified with silicified argillite							
453				452.4-452.7 MASSIVE GREEN- WHITE BANDED RHYOLITE RHMS							
454				452.7-453.5 BLACK CARBONACEOUS ARGILLITE ARCB							
455				MASSIVE MASSIVE with silicified 1-2 mm bands and mm sil + py on 20m.							
456				light and dark grey silicified with silicified argillite							
457											

PAGE		OF		PROJECT:				HOLE NO. 10-29			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Pu ppm	Ag ppm	Cu %	Pb %	Zn %	
		435.3	436.7	1.5	104805	-	-	.0062	-	.01	
		436.7	438.2	1.5	104806	-	-	.0051	-	.0068	
		438.2	439.8	1.6	104807	-	-	.0029	-	.0016	
		439.8	441.4	1.6	104808	5	-	.0045	-	.003	
		441.4	443.0	1.6	104809	5	-	.0047	-	.003	
		443.0	444.6	1.6	104810	10	-	.0064	-	.004	
		444.6	446.2	1.6	104811	15	-	.0061	.0008	.0088	
		446.2	447.8	1.6	104812	10	-	.0045	-	.0048	
		447.8	449.4	1.6	104813	5	-	.005	-	.0058	
		449.4	451.3	1.9	104814	5	-	.0053	-	.0046	
		451.3	452.9	1.6	104815	25	-	.0034	.001	.0136	
		452.9	454.5	1.6	104816	10	-	.0048	-	.006	
		454.5	456.1	1.6	104817	15	-	.0045	.0008	.0042	
		456.1	457.7	1.6	104818	5	.2	.0062	.0004	.001	
		457.7	459.3	1.6	104819	-	-	.0052	.0002	.008	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						
		457.7	459.3	1.6	104820	25	.2	.0046	.0022	.0254
		459.3	460.9	1.6	104821	20	-	.0036	.0032	.029
		460.9	462.6	1.7	104822	-	-	.0029	.0086	.0292
		462.6	464.2	1.6	104823	-	-	.0007	.002	.0078
		464.2	465.8	1.6	104824	-	-	.0003	.0012	.0042
		465.8	467.4	1.6	104825	-	-	.0023	.0008	.0084
		467.4	469.0	1.6	104826	-	-	.0005	.0016	.01
		469.0	470.6	1.6	104827	-	-	.0021	.0048	.0402
		470.6	472.0	1.4	104828	10	-	.0011	.0024	.0056
		472.0	473.2	1.2	104839	20	1.2	.0043	.013	.0584
		473.2	474.4	1.2	104830	40	9.6	.029	.059	.68
		474.4	475.6	1.2	104831	30	5.4	.0136	.038	.538
		475.6	476.4	0.8	104832	35	2.8	.0053	.014	.1205
		476.4	477.9	1.5	104833	50	3.8	.011	.0224	.319
		477.9	479.4	1.5	104834	65	4.6	.0123	.026	.521
		479.4	480.9	1.2	104835	60	3.4	.0127	.024	.258

PAGE	OF	PROJECT:				HOLE NO.				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Fe	Pb	Cu	Zn	Zn
		480.9	485	1.3	104836	75	2.2	.0117	.0164	.134
		482.4	483.8	1.6	104837	45	1.0	.0054	.013	.1135
		483.8	484.9	1.1	104838	-	-	.0012	.0004	.0132
		484.9	486.1	1.2	104839	-	.6	.0033	.01	.104
		486.1	487.3	1.2	104840	10	2.4	.0202	.016	.1095
		487.2	488.3	1.1	104841	35	5.6	.0646	.024	.1878
487.6 → 5 mm band of massive fg py. in situ with varying thickness. Low band of rrs sph. in situ. py. massive and massive.		488.3	490.0	1.7	104842	-	.2	.0044	.0116	.151
		490.0	491.7	1.7	104843	-	-	.0046	.0124	.0506
491.7 - 492.5 → low of 1 mm rrs fg sp. bands in situ at upper contact		491.7	492.5	0.8	104844	80	3.4	.0774	.036	3.45
upper 25 cm - irregular clots of rrs py. in a CO ₂ matrix - throughout with 1 cl. bands of 2 mm-1 cm with rrs py = rrs py		492.5	494.2	1.7	104845	-	-	.0044	.016	.032
		494.2	495.9	1.7	104846	-	-	.0041	.0098	.0256
492.5 - 502.7 → mineralization in situ. rrs/w more arg. amp. 2-4 mm mass sp. bands w d. pyrite, or rrs clots 2-4 mm. of py. often with a CO ₂ mix. (possibly small individual rrs clots)		495.9	497.5	1.7	104847	5	4.0	.0156	.0254	.1635
		497.5	499.3	1.7	104848	55	7.0	.0133	.0206	.1064
		499.3	501.0	1.7	104849	15	4.6	.0121	.027	.198
		501.0	502.7	1.7	104850	25	3.6	.0084	.084	.224

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
504				502.7-504.7 FAULT ZONE - fibrous and ground STEEL small fossils are fine and all are blue 4.1% rounded to d. pu								
505				504.7-511.0 CRYSTAL LITHIC RHYOLITE LAPILLI TUFF RHXT dark grey to brownish fine grained siliceous tuff w/ clear euhedral 1-2mm void space consists throughout local calc areas wither and bands Coel 10-15mm Qtz crystals mineralization - 4mm - 5mm pyrite voids throughout - some containing small ph. alteration - mostly siliceous alteration								
508				509.3-510.4 brk core w/ quartz MS								
511				511.0-514.5 SILICEOUS BLACK ARGILLITE ARSI dominantly arg with ferruginous minerals - iron-bearing carbonaceous 511.3-511.5 - ground up Qtz VN. + rhy. local calcareous bands. fr pu. 513.3 - 514.5 - siliceous - quartz - calc. unit for 1.5m. sharp poss. faulted con. black argillite mineralization								
514				514.5-525.0 QUARTZ EYE RHYOLITE LAPILLI TUFF RHQT at 514.5 1st quartz eye with 2b. quartz eyes. local - small siliceous alteration. - 1.5m a. 1.5m - 2.0m. greenish to blue mineralization. calciferous ph (0.5mm) and 2.1 cm calc bands and diss. local Qtz eyes at 30% of rock lapilli increase downhole lower 1.5m mottled texture black siliceous alteration and op loosely siliceous white arg.								
525				525.0-531.0 ARGILLACEOUS RHYOLITE LAPILLI TUFF RHAT (cont. from above)								

PAGE		OF		PROJECT:		HOLE NO.				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Pb ppm	Pb ppm	Cu %	Pb %	Zn %
		502.7	504.7	2.0	104852	30	4.6	.0009	.0164	.0978
		504.7	506.3	1.6	104851	15	2.0	.0011	.0156	.017
		506.3	507.9	1.6	104853	40	6.8	.0015	.0128	.1655
		507.9	509.5	1.6	104854	60	5.2	.0015	.0078	.145
		509.5	511.0	1.5	104855	60	6.2	.0019	.014	.1905
		511.0	512.8	1.8	104856	50	6.0	.0032	.01	.0828
		512.8	514.5	1.7	104857	25	8.6	.007	.053	.179
		514.5	516.0	1.5	104858	15	4.6	.0062	.0162	.338
		516.0	517.5	1.5	104859	15	5.8	.0065	.0352	.366
		517.5	519.0	1.5	104860	15	2.8	.0081	.0332	.293
		519.0	520.5	1.5	104861	30	7.6	.0046	.15	-
		520.5	522.0	1.5	104862	15	4.6	.0162	.086	.672
		522.0	523.5	1.5	104863	-	-	.0021	.001	.08
		523.5	525.0	1.5	104864	-	00	.0056	.0022	.258
		525.0	526.5	1.5	104865	-	2.0	.0055	.0264	.266

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
528				700-720 - 1-3 mm ...							
530				prob altered ...							
532				538-539 - ...							
534				clay							
536				type ...							
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534.0-545.0

FAULT EDGE ZONE -

STGG

large fault zone - mostly composed of above unit but ...

internals of less ...

543.0-546.0 - low ...

548-555

QUARTZ ENE RHYOLITE LAPILLI TUFF

R42

with ... with ... and ...

546-548

550-555

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						
		526.5	528	1.5	104866	-	1.0	.0014	.0514	.009
		528.0	529.5	1.5	104867	-	-	.0019	.0046	.0294
		529.5	531.0	1.5	104868	-	-	.0015	.0007	.0174
		531.0	532.5	1.5	104869	-	-	.0011	.0124	.0342
		532.5	534.0	1.5	104870	-	.2	.0051	.0116	.063
		534.0	535.6	1.6	104871	-	.6	.0033	.0076	.047
		535.6	537.2	1.6	104872	5	.6	.0021	.007	.0236
		537.2	538.8	1.6	104873	10	-	.0009	.0018	.0038
		538.8	540.4	1.6	104874	-	-	.0006	.003	.0046
		540.4	542.0	1.6	104875	-	-	.0006	.003	.0066
		542.0	543.6	1.6	104876	-	.4	.0019	.0036	.0202
		543.6	545.0	1.4	104877	-	1.2	.0031	.0072	.0398
		545.0	546.6	1.6	104878	-	-	.0011	.0008	.0076
		546.6	548.2	1.6	104879	-	-	.0006	.0024	.0066
		548.2	549.8	1.6	104880	-	-	.0005	.0004	.004

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
550				abundant elongate lens shaped siliceous lapilli locy chloritic mod. sericite altn.							
551				557.5 - 564.0 - bln core, qtz vns gouge.							
552				557.9 - gouge zone							
553				562.1 - 562.9 - gouge zone							
554				563.6 - 563.9 - gouge zone - Edm bent to 30° to ca. - qtz veins.							
555											
556			30								
557											
558			30								
559											
560											
561											
562											
563			30								
564			30	564.0 - 564.3 QUARTZ-FELDSPAR PORPHYRITIC FLOW							
565				QFP1 same as below - see for description							
566				564.3 - 565.1 QUARTZ EYE RHYOLITE LAPILLI TUFF							
567				RFQ1 564.3 - 564.5 - qtz (fault) min →							
568				565.1 - 572.0 SULPHIDE BEARING QUARTZ FELDSPAR							
569			30	QFP1 PORPHYRITIC FLOW.							
570				whit/gray/lt am gen. glassy textured siliceous rock w crude cm scale banding defined by light green serc. alteration halo. ab. blue atx eyes.							
571				(1-2mm) and large (~5mm) rounded to rectangular white feldspar phenos. often chl altered to lt gm. locl dark am chl clots. Mineralization →							
572			30	567.6 - 567.8 - qv.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Av PPM	Ag PPM	Cu %	Pb %	Zn %
		549.8	551.4	1.6	104881	-	-	.0006	.0036	.0114
		551.4	553.0	1.6	104882	-	-	.0004	.0024	.004
		553.0	554.6	1.6	104883	-	-	.0005	.0016	.0042
		554.6	556.2	1.6	104884	-	-	.0004	.0024	.0046
		556.2	557.8	1.6	104885	-	-	.0005	.0024	.0038
		557.8	559.4	1.6	104886	-	-	.0011	.0024	.0042
		559.4	561.0	1.6	104887	-	1.0	.0013	.0093	.0344
		561.0	562.6	1.6	104888	-	-	.0005	.0024	.0036
		562.6	564.0	1.4	104889	-	0.4	.0009	.0085	.0044
		564.0	564.3	0.3	104890	-	0.4	.0003	.004	.0072
		564.3	565.1	0.8	104891	-	-	.0086	-	.0024
Mineralization - 464.5-565.1 ocd 1-2 mm bands of rbr grainy sph		565.1	566.1	1.0	104892	-	14.4	.0012	.002	.0039
565.0 - 4 cm of massive rbr fgsph with calcite inclusions, ut 5 mm		566.1	567.1	1.0	104893	-	-	.0001	.009	.0161
Eq py clots and d. py. clots and disseminations of py throughout Overall, 3-5% py 1-2% sph.		567.1	568.1	1.0	104894	-	.2	.0002	.0054	.0122
		568.1	569.1	1.0	104895	-	1.2	.0005	.0052	.042
Mineralization - (porphyry unit) 568.5-572.0 - ocd. Fine gr massive sph bands ut 1cm, or sph stars w/ CO ₂ . Some coarse py bands w/ mm sph.		569.1	570.1	1.0	104896	-	10.0	.0022	.016	-
		570.1	571.1	1.0	104897	-	20.4	.0015	.064	.603
		571.1	572.0	0.9	104898	-	10.4	.0013	.036	.662

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
573				572.0-578.0 RHOV QUARTZ EYE RHYOLITE LAPILLI TUFF w argillaceous component. - same as 545.0							
574				574.0, lacy calcareous, gradational upper contact							
575											
576											
577											
578				578.0-581.9 RHAL BANDED RHYOLITE LAPILLI ASH TUFF							
579				very fine grained texture, mm scale banding defined by sericite - (mod altn)							
580				578.4-578.5 + qv mm CO ₂ banding,							
581				581.3-581.5							
582				581.9-586.1 RHAT ARGILLACEOUS RHYOLITE LAPILLI TUFF							
583				shrd wcn - disrupted bedding and large qtz fragments. (2x5 cm)							
584				582.3-582.5 - gouge zone (Fault?) mainly siliceous (rh) frags - w/ fine grained siliceous matrix (lapilli)							
585				argillaceous component increases downhole - gradual dark change to dk grey sericite altn mod-heavy - decreases downhole							
586				586.1-590.1 STGS GOUGE ZONE - gouge and broken core throughout unit - intact							
587				pieces show a siliceous argillite moderately carbonaceous gouge appears to be mainly argillaceous.							
588											
589											
590				590.1-607.1 RHAT ARGILLACEOUS RHYOLITE LAPILLI TUFF - unit varies from lapilli tuff to fine tuff, more argillaceous than 581.9-586.1. siliceous throughout							
591				but varies from 80% rhyolite bands + fragments separated by wispy arg to a dark grey fine argillaceous mix with ~ 15% white rhy lap - elongate 1-3 mm, and occasional blue qtz - ups.							
592				(cont next page)							
593											
594											
595											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
619	96%			619.2-620.7	GOUGE ZONE - 30° upper (contact (fault?))							
620				STGG	grey gouged material w/ low core avate.							
621	95%			620.7-633.1	ARGILLACEOUS BANDED LAPILLI-ASH TUFF							
622				RHAL	similar to RHPF above but banding is well defined with mm scale alternating blk arg and sic layers. arg layers usu. << 1mm, sic layers 1-3 mm. Gen fine grained siliceous material, but occasional rhy lapilli ~ 1-3mm are present occl quartz eyes.							
623	95%											
624												
625	95%											
626												
627	95%											
628												
629	95%											
630												
631	95%											
632												
633	EON			633.1 → EON.								
634												
635	EON											
636												
637	EON											
638												
639	EON											
640												
641	EON											

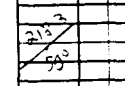
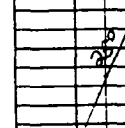
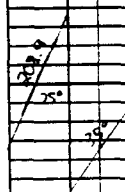
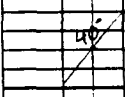
DEPTH (m)	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
		A	B	C	D	E		
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
73.9-74.5	MASSIVE ARGILLITE - ucon obscured by pc v.f.g. blk arg. izms on a mm scale. main sic component as mm scale bands. locu co ₂ as blotches and bands weakly carbonaceous throughout unit.							
74.6	73.9-74.5: fault zone clay to sand sized arg. intruded by lite qv atefog. co ₂ 74.6 - 4mm co ₂ vein.							
75.6-78.4	75.6-78.4 folm para to c.g (ductile defm) lots of folding as shown by sic bands t. unit bands are folded and contorted							
78.8-80.0	1-2% py as bands or remobilized into large 5mm stebs and stringers							
82.4-82.5	78.8-80.0 folm para to co (ductile defm)							
	82.4-82.5 qv - w/ mm chl							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
108				107.6-116.3 RHMS MASSIVE RHYOLITE - SIMILAR TO RHMS above mostly glassy min tufs comp. d py t. locy calc							
109											
110											
111											
112											
113											
114											
115				115.2-118.5 - 0° - foln para to ca							
116											
117				116.3-122.1 ARSI SILICEOUS BLK ARGILLITE blk arg w 10-15% silica in mm scale lams and mm blebs. locy calc 1% py. 3 spots on foln							
118											
119				119.2 - 0.9 py in a 5mm x 5cm lens single							
120				119.5-122.1 - 0-5° core anate							
121											
122											
123				122.1-137.2 RHMS MASSIVE GREY/WHIT RHYOLITE very siliceous alassy textured rhy with wispy alkam-bk ser bands defining foln. loc relict at phenos - (132.5) locu rock contns small amount of quartz clastic comp. as brown mm scale bands - contain small knt spicite. (tufaceous component) <1% py as crude car bands clots also foln and disseminations tufaceous component increases towards base mm scale brown-black bands lens obscured by d.c.							
124											
125											
126											
127											
128											
129											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
137.2											
138.2											
139.2											
140.2											
141.2											
142.2											
143.2											
143.2-143.3				GREY TO BLACK TUFFACEOUS ARGILLITE ARTF fine grained with siliceous component. tuff zones as light brown 3-10mm bands also min 1-2mm silic bands and blebs. 100% cc as blotches and veinlets <1% py clots on foln.							
143.3-144.2				RANDED GREEN TUFF - min CO ₂ , 5mm band + blebs. TF3 143.7-144.2 - 21g comp + lots of CO ₂ in tuff							
144.2-148.5				GREY-BLACK SILICEOUS ARGILLITE ARSI blk arg w silic pendants and blotches + silic secondary silic as irregular lenses and clots min secondary CO ₂ thin tuffaceous component 145.6-145.7 2v w am - tuff inclusions 146.5 - 19cm au w/ tuff inclusions min siliceous to py on foln. 147.0 - 97.7 - oc platy w ser and arg +							
148.5-150.1				BANDED GREEN TUFF - slightly irregular TF3 blk arg w silic component as wisps +							
150.1-151.7				GREEN-BLACK TUFFACEOUS ARGILLITE ARTF dithy blk arg w silic as veins and ir. blotches. 1mm bit + as fb wisps. 2v. 150.2							
151.7-153.4				BANDED-MASSIVE BLACK ARGILLITE ARMS massive blk arg as bands as blotches and bands min sec CO ₂ veinlets. min tuff component							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
177				JRWK 177-180 m all ...							
178										
179										
180										
181										
182										
183										
184				184-185 m							
185										
186										
187										
188										
189										
190										
191										
192										
193										
194										
195										
196										
197										
198										
199										
200										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
200											
201											
202											
203											
204											
205											
206											
207											
208											
209				208.9-209.5 TF3	BANDED GREEN TUFF - argilly argill- mud tuff w/min tuff is patches and streaks.						
210				209.5-210.5 ARTF	SERICITIC/BLK TUFFACEOUS ARGILLITE blk arg - sub mm - laminar, silic bands 1-2 mm - argill tuff bands - 10 mm wide						
211											
212				210.6-218.3 RHMS	GRY/GRN SILICEOUS SERICITIC BANDED RHYOLITE argillaceous upper portion as arg masses more siliceous. Unit consists of interbedded massive highly fractured greyish white - green rhyolite (flow?) argillaceous tuff layer present as up to 10 cm interbeds. weak-wed. sericitization causes pale green - top locally - argillite occurs as black wisps in part of arg. tuff on flow.						
213											
214											
215											
216											
217											
218				218.3-226 ARWK	SILICEOUS ARGILLITE WITH INTERBEDDED FINE GRAINED TUFF AND GREYWACKE partly argillite tuff with argillite tuff with argillite band of argillite tuff with tuffaceous argillite and ab argillite beds. (continuation of flow)						
219											
220											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
245.5											
245.5-247.2	24.6 58.3			BANDED GREEN TUFF - some argillaceous Tf3 thin bedded argillaceous tuff green tuff with CO ₂ bands - next to thin slip lower contact and upper contact							
247.2-257.5	25			INTERBEDDED SILICEOUS ARGILLITE AND GREEN SLATE thin interbedded interbedded argillaceous wacke and gre arg. on a mill scale some thin beds up to 30 cm thick 16 argillaceous beds in 17 ft 249.3-252.6 = 3.3 m of argillaceous 252.6-252.8 = 0.2 m of argillaceous interbedded calicheous argillaceous w/ bands lenses and nodules							
252.8-254.2				254.2-255.1 = arg. poss fault with 1% py + small fractures near top ab tuff facies - very bedded with interbedded middle (247.2-248.3)							
254.2-257.5	40			INTERBEDDED BLK ARGILLITE AND GREEN SLATE argillaceous tuff 40 m thick thin bedded thin - mill scale but soil weathered to 20 cm sand argillaceous green wacke to 50 cm 100% argillaceous bedded beds 259.9 = duplex folding argillaceous very siliceous 1-3-5 mm scale thin pyrites and lenses and near base - some argillaceous bands some a lot of sand large calcareous as patches in some beds - some pyrites and some large argillaceous beds and nodules							
257.5-267.4	40			BANDED GREEN AND BROWN TUFF Tf1 thin bedded argillaceous tuff some argillaceous beds							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
267.4-270.0		ARWK		INTERBEDDED SILTIOUS ARGILLITE AND GREEN CLAYE ...							
270.0-273.5		ARGT		INTERBEDDED SILTIOUS ARGILLITE AND GREEN CLAYE ...							
273.5-280.9		ARWK		INTERBEDDED SILTIOUS ARGILLITE AND GREEN CLAYE ...							
280.9-324.4		ADIT		COARSE GRAINED ANDSTITE ...							
324.4-326.5		RHMS		COARSE GRAINED ...							
326.5-330.0		ADIT		COARSE ANDSTITE ...							

20°

20°

45°

50°

20°

10°

20°

10°

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
293				interbedded ...							
293				interbedded ...							
294				interbedded ...							
295				interbedded ...							
296				interbedded ...							
296.5-300.8				296.5-300.8 TUFFACEOUS ARGILLITE							
300.8-301.5				300.8-301.5 GOUGE ZONE - green to brown							
301.5-303.3				301.5-303.3 GREEN BROWN BANDED TUFF							
303.3-304.9				303.3-304.9 TUFFACEOUS ARGILLITE							
304.9-325.1				304.9-325.1 RHYOLITE FRAGMENTAL UNIT							
305.4-306.9				305.4-306.9 - gouge zone and							
310.7-311.2				310.7-311.2 - clay + carbonate							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
315				315.5 - 316.0 - 316.5							
316											
317			bc	317.0 - 318.5 - on recovery - gauge core core up fault							
318				318.2 - 319.4 - ground up quartz vn.							
319				core is ground and broken until end of core							
320											
321											
322			bc								
323											
324											
325											
326				326.1 - EDH							
327											
328											
329											

DRILL LOG

PROJECT Wolverne	GROUND ELEV. 1483 -
HOLE NO. WV96-31	BEARING 0° 0' 0" N
LOCATION 3952.7 N 3950.6 E	DIP -35°
	TOTAL LENGTH 516.3 metres
LOGGED BY T. Tucker / G. Bradshaw / P. Thurston	HORIZONTAL PROJECT
DATE June 2 - 16, 1996	VERTICAL PROJECT
CONTRACTOR Caron	ALTERATION SCALE 0 1 2 3 absent slight moderate intense
CORE SIZE HQ Reduce to NQ @ 26.7 m	TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED Nov 31 1996	
DATE COMPLETED June 16, 1996	
DIP TESTS lots of photos w/ Sperry-Sun. See attached data sheet	
COMMENTS thin massive sulphide zone 480.1 - 480.62 and a lower zone at 481.6 - 481.7 metres, both are zinc rich. strong pervasive chlorite + sericite alteration in footwall	LEGEND Argillite Rhyolite - massive or flow rock Lapilli Tuff IRON FORMATION mixed Tuff / Argillite

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
30				RHMS (cont.)							
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											

30

30

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
76												
77				76.5-76.8 10 cm wht. v. v. silty + ferruginous incl.								
78												
79				78.3-78.5 msu wht. g.v. w chl. incl.								
80												
81												
82				81.7-106.2 RHMS medium to interbedded brown sericite altered massive rhyolite flow occasionally part has a fine texture although generally massive								
83												
84												
85												
86												
87												
88												
89												
90												
91												
92												
93												
94												
95				95.4-96.1 - shear zone sericite alt along shear plane minor small calcic component								
96												
97												
98												

shear

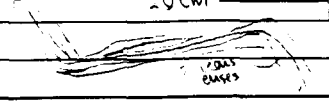
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
99			40								
100											
101											
102			41								
103											
104											
105											
106				106.2- ARMS dark black thin laminated 1-2mm bands of dark arg to light grey coarse sed.							
107											
108											
109											
110											
111											
112				112.3-112.55 MSU white g.v. minor chl							
113											
114											
115	96		42	114.5-116.5 TF3 Banded green dacitic andesitic tuff sharp upper contact gradational lower contact. green fine grained grit with some as secondary 0.5-2.5 cm reus and patches. also 1-2mm cc. bands to unit.							
116	97			116.5-117.1 ARTF Black tuffaceous argillite (clastic) locally with 100 μm scale siliceous bands and 1-5mm green tuff bands. esp. at con.							
117			43	117.1-118.6 TF3 Banded green tuff - same as above, lots of silification + ass/chl. 'b calcite.							
118				118.6-1232 ARTF Silicified tuffaceous argillite							
119											
120											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
145				min siliceous banding local sect ... at 50-60% silica and ...							
146				min calc - bands and veinlets. <1% pyrite clots on fractures and soln.							
147											
148			90°								
149											
150				150.9-153 - folded arg - very soft but intact - some brecciation							
151											
152											
153											
154			90°								
155											
156											
157											
158											
159				159.2 - 10cm of dense arg clay.							
160											
161											
162											
163											
164											
165				165.4 - 10cm arg - altered zone							
166											
167											
168				168.8-166.2 - grey green buff w much min siliceous banding min calc - some arg. Interbeds							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
168				ARWK (cont.)							
169											
170											
171											
172											
173				173.4 - br. gray - 13 cm							
174											
175				175.1 - 4 cm qv intact shrp contacts with carbonaceous blk arg.							
176											
177											
178				178.7 - 185.0 small interval of green fine grained blk - same as below.							
179											
180											
181				gradational lower contact into unit below.							
182											
183				183.5-187.3 BANDED GREEN TUFF - similar to TF3							
184				previous tuff - grainy texture chaotic quite calcareous possibly trace (interbedded)							
185				and upper contact shrp lower t							
186											
187											
188				187.3-197.3 INTERBEDDED BLK ARGILLITE AND GREYTALE ARWK							
189				Saa lots of blk core here - 188.5 silty blk arg.							
190				188.9 tan blk arg - blk arg 10 cm.							
191				189.6-189.5 rubble blk arg							
192											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
191				191.2 - 192.0 - folded arg + arg + quartz							
192				unit generally mixed up							
193											
194											
195											
196				196.0 - unit av.							
196.5				2mm iron - off bed							
197											
197.3				197.3 - 200.4 INTERBEDDED BLK ARGILLITE / GRN TUFF							
198				block arg + green tuff interbedded							
199				Even 1mm - 10cm abundant							
200				folded arg - fracturing - late							
201				cc on fractures + veinlets							
202				calcareous sands + at 1cm							
203				euhedral pyrite + pyrite clots on							
204				fractures and foln < 1%							
204.7				197.7 - 198.1 coarser arenaceous							
205				siliceous rock.							
206											
207				200.4 - 208.9 INTERBEDDED ARGILLITE AND GREYWACKE							
208				ARWK							
209				- also occasional 2mm - 5mm green							
210				locally calcareous argitic interbeds of							
211				arg tuff throughout unit.							
212				- very mixed up unit with abundant							
213				folded of arg, tuff and gw. beds							
214				- reflections of very siliceous arg.							
215				unit with silica on mm scale							
216				uniplanar bands separated							
217				by < 1mm wisps of black arg.							
218				208.0 - 208.5 - rounded up green							
219				tuff and arg. siliceous							
220				10mm v at 208.4.							
221				- arenaceous beds are 1-20 cm H							
222				arg, med-coarse arg and arg +							
223				siliceous							
224				arg and green tuff often							
225				intimately intermixed with							
226				bedding on a mm scale							
227				210.9 - 211.2 - prominent folding							
228				high angle folds - structure conformable							



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
214				- siliceous material increases towards 20cm								
215												
216			45°	215.8 - 216.0 - 20 cm thick folded section - foliation ~ 5% to ca within fold - w/ fine mm lam of siliceous material and org.								
217				218.5 - more folding, some coarse mat								
218												
219			45°	218.9 - 222.2 GREEN/GREV (ARCWV) BANDED TUFF TFI								
220				similar to tuffs those comb of more massive darker green calc "oolitic" with (carbonate), upper section more siliceous with very siliceous tuff lower section contains 1/2 mm scale micaceous sm bands anastomosing around tuffaceous mat at a cm to 1/2 cm scale.								
221												
222			45°	222.2 - 228.4 MASSIVE TUFFACEOUS RHYOLITE RHMS or RHTE								
223				gradational upper contact marked by an increase in siliceous mat to ~80% thrust - instead of light gray-glassy rhyolite + 5-6 cm (maybe recrystallized tuff but appears massive) interbedded w/ fine or brown bands of calc and clay calc. green tuffaceous bands - banded on a mm scale but incl up to 30 cm some carbonate cemented siliceous bands. Rhyolite has a more "fragmental" texture towards bottom - gradational lower contact.								
224			45°	228.4 - RHYOLITE FRAGMENTAL RHER								
225				min green tuffaceous + folded interbeds near upper contact - granitic to feldspar fragmental rhyolite with large jagged fragments separated by sub-mm black anastomosing micaceous partings - may be some org. material in part here also. mat. <1% pt as clots + disseminations. 234.5 - w/ w/ org - chl, incl.								
226												
227												
228			45°									
229												
230												
231												
232												
233												
234			40°									
235												
236												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
237			50°	RHF (alt) 255.1-255.5 occasional green buff streaks 5-10 cm silty - previous thin buff - about 2 m thick texture like to brown micaceous sub mm platy and v. fg d. py.								
238												
239												
240												
241												
242												
243				243.3-243.5 - green/brown buff 243.5-244.4 - more massive light grey rock with only occasional fragmental texture - due to ab fine grained calcite.								
244												
245			45°									
246												
247												
248												
249				248.6-249.3 qv - wht with org and micaceous imp.								
250			80°									
251				250.5-250.7 - qv - chl - mic (buffaceous)								
252												
253			150°	252.4-255.4 STGG FAULT GOUGE ZONE AND QUARTZ VEINS - very coarse and crushed zone with sharp contacts - granule sized silica + platy org micaceous wh pure white qv wh fragment zone - as large amount of quartz.								
254												
255			250°									
256				255.4 - RHF	RHYOLITE FRAGMENTAL - 500							
257			90°									
258												
259												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
283				284.3-284.7 Qtz vein lower contact gradational							
284				285.6-302.9 BANDED GREEN & WHITE RHYOLITE							
285				RHH1 med grn & whit banded rhy - bands on 3-5mm scale, aphyric for the most part occasional small (<1mm)							
286				Lsp phenos in some parts. Dlaty foln "solar rim" fracturing along foln planes. lower contact gradational and similar but lath-like int							
287											
288											
289											
290				looks like andesite with flow rock noted in holes 96-25 to 26-29. distinctive enough to warrant new code for 102II							
291											
292				292.9 10 cm Qtz vein w/ py + galena							
293				302.9-335.6 GREEN BANDED RHY. LAPILLI TUFF							
294				thick section similar to abv unit but w/ increasing % lapilli down hole.							
295				302.9-321.0 m, lapilli ~ 10% and generally white silica 2x5mm							
296				321-322 - banded grn & whit no lapilli							
297				(see next page)							
298											
299											
300											
301											
302											
303											
304											
305											

30°

60°

60°

60°

60°

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
306											
307											
308				308.8-308.9 Quartz vein							
309											
310				Alteration: very top of unit (5cm) strongly sericitized remainder moderately chloritic							
311											
312											
313				mineralization: tr. py but not much							
314											
315											
316											
317											
318											
319											
320											
321											
322				322.0 small Fault - 6xkd ~ 8cm Fault at 30° to core axis							
323				322-323.8 Broken core, platy bits of aphyric pale green rhyolite locally banded							
324											
325				325.8-332.0 - lodioli larger + more abundant - 20-25% - mostly cream to white color but some are bluish white.							
326											
327											
328											

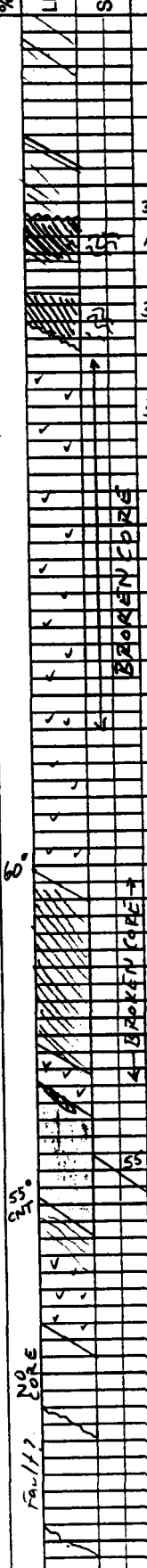
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
329				332.0-335.6 Broken core same lapilli till unit out poor recovery = lots of breakage							
330											
331				335.6-336.1 Quartz vein QTVN white qtz w/ 5% pyrite 45° lower contact							
332											
333				336.1-336.6 INTERLAYERED RHYOLITE & RHAR ARGILLITE wht-ary aphyric rhy bands to 2cm and arg/bwn argillite							
334											
335				336.6-337.5 Quartz Vein QTVN wht qtz vein w/ 30% frags of wall rock. tr-1% py in qtz. wallrock is dk green chlorite rich argillite? w/ 1% Pφ and 5% clots of py to 1cm in diameter, also sm clots of py lenses in foln.							
336											
337											
338											
339				337.5-339.5 INTERLAYERED RHYOLITE & RHAR ARGILLITE dk green/brown argillite w/ 5% py and aphyric med ary rhy w/local lapilli.							
340											
341											
342				339.5-342.4 IRON FORMATION - PYRITIC EXMP dk green to black rock w/bands of mag, traces of Pφ (esp. at top), and a pyritic zone w/~15% py, mag. delicately lam in bands 2mm- 1cm thick, msu mag bands stop at 342.2 m, base of unit is dism mag (2-5%)							
343											
344											
345											
346				340.2-340.8 Qtz vein. 341.8-341.9 thin siliceous band w/<1% mag.							
347											
348				342.4-345.2 MASSIVE RHYOLITE msu to banded cream colored to white aphyric rhy. trace dism mag in upper 10 cm. Thinly banded on 2-3mm scale, some bands are blue gray silica.							
349											
350											
351											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
352				345.2-345.3 MAGNETITE IRON FM. EXMT twin band of chlorite + mag rock.							
353				345.3-346.2 BANDED RHYOLITE RHMS cream to lt brn. sericitic rhyolite, thin bands.							
354				346.2-346.4 IRON FORMATION							
355				60 EXMT banded chlorite-mag-silica rock w/tr-1% py. Mag bands are 8mm-1cm thick.							
356				346.4-348.1 BANDED RHYOLITE RHMS cream-lt brn sericitic.							
357				Qtz vein 347.4-347.6							
358				348.1-353.9 IRON FORMATION EXMT banded mag-chl-silica rock, not as much msu mag as							
359				obv. units. Top 1 metre is pretty massive mag (60%) but this changes to alternating							
360				bands of silica rock + mag w/mag bands more dism + thinner. lower 2m of unit							
361				consists of mag bands to 1cm + dism mag interlayered w/wht to cream siliceous rock.							
362				tr-1% dism py, esp in top 2 metres.							
363				353.9-356.1 MASSIVE RHYOLITE RHMS wht to cream colored banded rhy, aphyric, local chlorite partings, minor sericite.							
364				356.1-356.8 Quartz vein QTVN wht qtz, broken + ground core, local py., shattered qtz.							
365				356.8-364.7 INTERBEDDED ARGILLITE & RHYOLITE RHAR Arg >> rhy., top of unit sericitic, generally thin silica bands in black argillite % of silica at top = 30, grades into 100% argillite at base							

scale continues on next page

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
366	✓	GROUND CORE	↑	364.7-370.0 MASSIVE RHYOLITE							
367	✓			really ground up core - grey to grey-green aphyric silica rock w/ chlorite + sericite partings. platy, prob. was banded rhy.							
368	✓										
369	✓	GROUND CORE	↑	370.0-391.0 LAMINATED BLACK ARGILLITE ARMS							
370	✓			thinly lam. blk. arg., locally ground core, thin qtz veins at 370.8 (5cm) and 374.9 (6cm) dism. by along foln.							
371		BROKEN CORE	↑								
372				376-386 - rusted + broken core some siliceous material							
373											
374											
375					mineralization: pyrite on fets at high angle to foln and py wisps along foln planes, overall < 2%						
376											
377											
378											
379											
380											
381											
382											
383											
384											
385											
386				386.6-386.7 Qtz vein w/py							
387											
388											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				ARMS (continued)							
389				388.2 - 388.6 Qtz vein w/ 1% py on fets							
390				389.8 - 390.0 Qtz vein w/tr py on fets lower contact sheared							
391				391.0 - 391.7 GRAPHITIC ARGILLITE							
392				ARGR greasy black graphitic argillite, strong shearing, local gouge.							
393				391.7 - 392.1 QUARTZ VEIN							
394				QTUN shattered + fractured wht qtz w/ fragments of argillite.							
395				392.1 - 392.7 GRAPHITIC ARGILLITE							
396				ARGR graphitic blk arg, poor recovery, sheared.							
397				392.7 - 400.8							
398				RHFS pale green/grey aphyric silica rock. core pretty ground up + broken, poor recovery. lower 20 cm weakly banded w/ alternating chlorite + silica layers.							
399				400.8 - 403.3 CARBONACEOUS ARGILLITE							
400				ARCB black sooty argillite, local spots w/ graphite. Broken core. Tr. py.							
401				403.3 - 403.9 APHANITIC RHYOLITE							
402				RHFS lt grey to cream colored silica rock, banded on mm scale at base, large 3x6 cm qtz boudin marks lower contact. sericite altn.							
403				403.9 - 405.7 IRON FORMATION							
404				EXMT silica-magnetite rock w/ minor chlorite. Qtz veins in upper 20 cm, 70 in fets along upper contact. mag occurs as msu bands to 2 cm thick in upper half and as 5-7% dissem grains in lower half. very siliceous. traces of py on fets.							
405				405.15 - 405.30 - pale green CO ₃ +Qtz no magnetite							
406				405.7 - 407.5 APHANITIC RHYOLITE							
407				RHFS banded brown/green sericite-chlorite rock at top 10 cm, rest is pale brn to tan aphanitic rextallized silica rock.							
408				407.5 - 408.7 NO CORE							
409				DHLC							
410											
411											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				408.7-410.6 FAULT ?							
412				STFL gougy argillite, <10% core recovery							
				410.6-414.3 CALCITE-PYRITE ROCK							
413				EXCP lt grey CO ₂ rock, banded on 2-3 mm scale, abundant qtz and qtz-co ₂ veins to 5cm, py approx 7% overall, occurs as thin bands 2-4 mm and <1 mm stringers along foln.							
414	70°										
415				414.3-415.3 SILICA-PYRITE ROCK							
416				EXSP grey silica w/ up to 10% py. banded sil/py on mm scale, some py bands up to 5mm thick, py bands are semi-massive.							
417	70°										
418				415.3-417.0 SILICEOUS ARGILLITE w/ PYRITE							
419				ARSI black argillite, locally graphitic but mostly siliceous. bands of semi-mssv py up to 2cm thick comprise ~10-15% of interval. some py bands are delicately laminated w/ blk argillite.							
420											
421				417.0-419.7 NO CORE							
				DHLC							
422				419.7-425.4 INTERBEDDED RHYOLITE/ARGILLITE							
423				RHAR dk grey rhy, aphyric, intbdd w/ 10% blk arg. % rhy >> % arg. poor recovery continued py bands to 3mm thick, py approx 5-7% of interval, py also in high angle fcls.							
424											
425				424.4-424.6 - Qtz vein							
426				lower contact is bxxd rhy in arg matrix.							
427				425.4-426.2 CALCITE-PYRITE ROCK							
				EXCP grn/bm CO ₂ w/ 5-7% py bands. upper CNT bxxd, qtz veins also along upper contact.							
428											
429				426.2-426.3 SILICA-PYRITE ROCK							
				EXSP thin band w/ 30% py, no CO ₂ .							
				426.3-427.2 INTERBEDDED RHYOLITE/ARGILLITE							
				ARRH Arg > Rhy, top 20cm rhyolitic, rest is black argillite. <1% py bwer 10cm bxxd, lower contact faulted.							
				427.2-429.05 CALCITE-PYRITE ROCK							
				EXCP banded grey CO ₂ w/ py bands to 5mm. lots of qtz							
				428.1-428.5 mottled creamy qtz w/ chl altn patches + py							

Scale continued on next page

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
430				EXCP (continued) Note Δ in foln angle. thin sph band ~ 2mm present 3cm above lower contact. Lower contact marked by bxxd qtz vein.							
431				429.05-432.7 SERICITE ALTD RHYOLITE TUFF							
432			45°	RHST gry-grn sericitic rhy tuff, rare qtz eyes ~ 1mm in diameter, banded on mm scale, mod chl altn also.							
433				429.8-429.9 - Qtz vein							
434				430.3-430.8 - Qtz vein altn \downarrow w/depth.							
435				432.7-432.9 FAULT BRECCIA							
436				STBX bxxd ser altd tuff, soft, gougy. upper CNT @ 30°, lower CNT @ 50°							
437				432.9-435.5 CONTORTED SILICEOUS ARGILLITE							
438			45°	STSH continuation of fault zone above but alteration stops abruptly. Rock is sheared argillite, locally bxxd, and qtz stringers. 2-3% py dism and some clots of msu py that xcut the foln. Abrupt change to 65° foln \times at base of this zone. Qtz vein @ bottom							
439											
440											
441				435.5-438.0 INTERBEDDED ARGILLITE/RHYOLITE							
442				ARRH siliceous blk argillite, laminated, intbdd w/wht/gry aphyric rhy. top of unit Arg \gg rhy, base of unit Arg = Rhy, lower contact arbitrary and marked by end of arg interbeds. Traces of py in thin							
443			65° CNT								
444											
445				438.0-442.9 PALEGREEN/WHITE BANDED RHYOLITE (FLOW?)							
446				RHFL aphyric banded silica rock, alternating bands grn/wht, locally msu pale green. no sulphide.							
447				441.2-441.5 Quartz vein							
448				442.9-444.1 DK GREY MASSIVE RHYOLITE							
449				RHMS aphyric, aphanitic msu silica rock. tr py on foln + on fets.							
450				444.1-445.2 ARGILLITE							
451				ARSI black siliceous argillite - ground core.							
452				445.2-446.6 MASSIVE RHYOLITE							
				RHMS dk grey, same as 442.9-444.1							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
453				446.6-457.8 PALE GREEN BANDED RHYOLITE RHFL (FLOW?)							
454				aphitic msv to banded rhy, pale green to grey green color. Numerous CO ₂ bands up to 20 cm thick. not much py but some on fets and along foln. Thin sph band at base of unit (~1 mm thick). CO ₂ bands may be clasts.							
455				CO ₂ bands: 448-448.17; 451-451.1; 452.6-452.66; 453.04-453.09; 453.40-453.47; 457.40-457.46							
456				weak ser altn + weak chl altn throughout.							
457				457.8-459.0 BLACK SILICEOUS ARGILLITE							
458	65°			dk gry to blk sil arg. base of unit marked by 9 cm thick grey CO ₂ band. Tr py in CO ₂							
459	65°			459.0-463.6 PALE GREEN BANDED RHYOLITE							
460				RHFL (FLOW?)							
461				same rx as 446.6-457.8 w/ CO ₂ bands and wk ser altn.							
462				lower contact gradational, marked by color change + start of argillite.							
463				463.6-464.8 INTERBEDDED RHYOLITE/ARGILLITE							
464	60°			RHAR dk gry sil arg + rhy, cm-mm scale layering, grades into msv gry rhy w/ tr py.							
465				464.8-466.9 PALE GREEN BANDED RHYOLITE							
466				RHFL (FLOW?)							
467				same as abv. 2 CO ₂ bands, tr dism py. grades to grey rhy at base							
468				466.9-472.0 CARBONACEOUS ARGILLITE							
469				ARCB locally siliceous but mostly laminated black carb. arg, some thin (5-7cm) silica layers.							
470				Qtz vein: 468.0-468.1							
471				bottom 70 cm - arg contains lapilli? and silica frags to 3x4 mm.							
472				472.0-474.1 SERICITIC RHYOLITE LAPILLI TUFF							
473				RHSR pale grey green altered lapilli tuff							
474	45°			lapilli ~ 2x8 mm and either siliceous or calcareous, mod-strong ser altn, minor lithic frags, lower contact sharp.							
475				474.1-474.8 BLACK ARGILLITE WITH QUARTZ FRAGMENTS							
				AROE carbonaceous black argillite with flattened qtz fragments and							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
476	25%			MSQE (continued) some porphyritic volcanic rock Fragments minor (O ₃ altered fsp?) fragments are generally ~ 3x10 mm but some are slightly larger. Traces of py and slightly more Pø along foln. (<<1%)							
477											
478	60%										
479				474.8-475.6 CHLORITE & SERICITE ALTERED RHYOLITE							
480				RHCT TUFF med green qtz phytic tuff, laminated on mm scale 5-7% blue grey quartz Phenocrysts 1-2 mm in diameter, some up to 4mm but these are rare. extensive chlorite alteration with lesser sericite. Tr py along foln. base of unit faulted.							
481	25%			475.6-475.8 SERICITIC FAULT GOUGE STFL greasy, platy, fault gouge & sheared tuff.							
				475.8-478.3 CHLORITE & SERICITE ALTERED TUFF RHST similar to unit above fault but fewer qtz eyes and a strong shear fabric. sericite > chlorite Thin 1-3mm py bands common in lower part of unit							
				478.3-480.1 CONTORTED GRAPHITIC ARGILLITE sooty black argillite with semi-msv sulphide (pyrite) bands. Top 90 cm is highly contorted & sheared, 20 cm ground up zone starting at 479.5 lower 60cm contains py bands 5-18mm thick. Py bands ~ 20% of this zone. lower contact ground up and not clearly discernable.							
				480.1-480.62 MASSIVE SULPHIDE top 10 cm is msv pyrite. Remainder is zinc rich with buckshot py to 480.35 and banded sph/py to 480.62 minor chlorite clots and minor chalcopyrite in lower 15 cm. lower contact sharp and looks depositional.							

Scale continued on next page

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
480.62-481.6	35%	ARCB		CARBONACEOUS ARGILLITE black sooty argillite, finely laminated, thin (1mm) rog bands and traces of pyrite in thin foln parallel stringers and as angular fragments ~ 2mm in size.							
481.6-481.7	35%	SSMS		MASSIVE SULPHIDE thin band of zinc rich massive sulphide w/ pyritic top and 5cm massive sphalerite base. minor CO ₃							
481.7-492.5	35%	RHCL		CHLORITE - SERICITE ALTERED RHYOLITE LAPILLI TUFF fine grained laminated tuff w/ strong chlorite + sericite alteration. Chlorite altn = dk green rock, Sericite = pale green - grey.							
484.5	35%	RHSR		Δ from chlorite >> sericite to sericite > chlorite							
486.5	35%			small high angle fault @ 20° to core axis lapilli are small - 2mm x 6-8mm minor CO ₃ , some lapilli calcareous and some CO ₃ in matrix.							
492.5-496.5	35%	RHST		THIN BEDDED SERICITIC TUFF pale green platy thin bedded tuff, minor CO ₃ , sericite and chl altn but ser >> chl. tr dism py.							
496.5-499.0	35%	DHLC		NOT MUCH CORE - Fault? ground up chips + sand							
499.0-502.0	35%	RHST		SERICITE ALTERED TUFF pervasive ser altn, rock is cream/ greenish brown color, banded on mm - cm scale. Tr pb along foln and dism py < 1%, locally calcareous w/ CO ₃ (apilli? (poss replacement).							
502.0-503.2	35%	RHST		INTENSE SERICITE ALTERED TUFF (QTZ VEINS white qtz veins at 502.2-2.3, 2.5-2.6 w/ sericite + chlorite envelopes and 1-7% dism py. minor CO ₃ in tuff.							
503	35%										

sericite altn.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
503.2-509.4				SERICITE ALTERED LAPILLI TUFF							
504				RHSR pale green to green-brown thinly banded lapilli tuff. Calcareous.							
505				mod-strong sericite altn, decreases down hole. upper 3 m more							
506			60°	lapilli rich (10-15%), lower part more tuffaceous without							
507				lapilli, 2-3% dism py throughout.							
508				Qtz veins w/ strongly sericitized envelopes at 505.3-505.9, 507.5-507.8 and 508.2-508.3.							
509			60°	513.0-514.2 NO CORE							
510				509.4-516.3 FINE TUFF - MOD. SER. ALTN							
511				RHST light grey sericitic tuff, 1-2% dism py, calcareous. less intense alteration than above unit.							
512				516.3 END OF HOLE							
513			60°								
514											
515											
516											
EOH 516.3m											

15 June 96
PRT

WU96-31 QUICK LOG of INTERCEPT

From	To	DESCRIPTION	
475.8	477.0	Sericitic rhyolite tuff - Qtz phytic w/ 5% 1-2 mm Qtz eyes strong shearing. core angle = 60°	
477.0	478.2	Interlayered Qtz phytic tuff and carbonaceous argillite. 2% pyrite laminations.	
478.2	480.1	Contorted graphitic argillite with semi-massive pyrite layers up to 1.5 cm in thickness. Total pyrite content = 5%	
	480.10	480.20	Pyrite rich massive sulphide
True thickness 37 cm	480.20	480.62	Zinc rich massive sulphide. Buckshot pyrite in middle of interval, alternating bands of sphalerite rich / pyrite rich massive sulphide approximately 1 cm thick at base of interval. Core angle = 60°
	480.62	481.6	Carbonaceous black argillite, ~1% disseminated pyrite.
True thickness 9.5 cm	481.6	481.71	Zinc rich massive sulphide with minor chalcopyrite.
	481.71	487.0*	Sericite altered rhyolite lapilli tuff. 60° core angle.
	*last box in rack.		

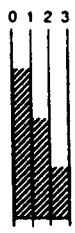

WV96 - 31				Sperry-Sun	Grid	True
Survey Type	Depth (ft.)	Depth (m)	Inclination	Azimuth	Azimuth	Azimuth
Collar	0	0.0	-65	-	0	35
Sperry-Sun	200	61.0	-67	1	-2	33
Sperry-Sun	287	87.5	-68	1	-2	33
Sperry-Sun	387	118.0	-70	2	-1	34
Sperry-Sun	477	145.4	-72	359	356	31
Sperry-Sun	567	172.8	-74	357	354	29
Sperry-Sun	667	203.3	-78	350	347	22
Sperry-Sun	777	236.8	-80	349	346	21
Sperry-Sun	927	282.5	-80	338	335	10
Sperry-Sun	1007	306.9	-83	339	336	11
Sperry-Sun	1107	337.4	-84	340	337	12
Sperry-Sun	1207	367.9	-84.5	330	327	2
Sperry-Sun	1307	398.4	-85	330	327	2
Sperry-Sun	1407	428.9	-86	270	267	302
Sperry-Sun	1507	459.3	-86	260	257	292
Sperry-Sun	1607	489.8	-85.5	230	227	262

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WW96-31	339.50	340.45	0.95	104900
WW96-31	340.45	340.85	0.40	104901
WW96-31	340.85	342.10	1.25	104902
WW96-31	342.10	342.40	0.30	104903
WW96-31	345.20	345.30	0.10	104904
WW96-31	346.20	346.40	0.20	104905
WW96-31	348.10	349.00	0.90	104906
WW96-31	349.00	349.90	0.90	104907
WW96-31	349.90	350.80	0.90	104908
WW96-31	350.80	351.90	1.10	104909
WW96-31	351.90	352.90	1.00	104910
WW96-31	352.90	353.90	1.00	104911
WW96-31	403.90	405.70	1.80	107501
WW96-31	410.60	412.00	1.40	107502
WW96-31	412.00	413.00	1.00	107503
WW96-31	413.00	414.30	1.30	107504
WW96-31	414.30	415.00	0.70	107505
WW96-31	415.00	417.00	2.00	107506
WW96-31	419.70	425.40	5.70	107507
WW96-31	425.40	426.30	0.90	107508
WW96-31	426.30	427.20	0.90	107509
WW96-31	427.20	429.05	1.85	107510
WW96-31	472.00	474.10	2.10	107511
WW96-31	474.10	474.80	0.70	107512
WW96-31	474.80	475.80	1.00	107513
WW96-31	475.80	477.00	1.20	107514
WW96-31	477.00	478.30	1.30	107515
WW96-31	478.30	479.50	1.20	107516
WW96-31	479.50	480.10	0.60	107517
WW96-31	480.10	480.62	0.52	107518
WW96-31	480.62	481.60	0.98	107519
WW96-31	481.60	481.70	0.10	107520
WW96-31	481.70	484.50	2.80	107521
WW96-31	484.50	486.30	1.80	107522
WW96-31	486.30	487.60	1.30	107523
WW96-31	487.60	489.60	2.00	107524
WW96-31	489.60	492.50	2.90	107525
WW96-31	492.50	494.50	2.00	107526
WW96-31	494.50	496.50	2.00	107527
WW96-31	499.00	500.50	1.50	107528
WW96-31	500.50	502.00	1.50	107529
WW96-31	502.00	503.20	1.20	107530
WW96-31	503.20	505.20	2.00	107531
WW96-31	505.20	507.20	2.00	107532
WW96-31	507.20	509.40	2.20	107533
WW96-31	509.40	511.40	2.00	107534
WW96-31	511.40	513.00	1.60	107535
WW96-31	514.20	516.30	2.10	107536

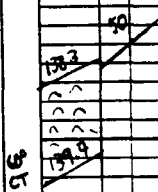
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
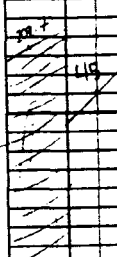
DRILL LOG

PROJECT Wolverme	GROUND ELEV. 1488.2
HOLE NO. WV-96-32	BEARING Ø° GRID NORTH
LOCATION 16965.1 N 16896.6 E	DIP -65°
	TOTAL LENGTH (1793') 490 546.5
LOGGED BY G. Bradshaw / P. Thurston	HORIZONTAL PROJECT
DATE June 2	VERTICAL PROJECT
CONTRACTOR Caron Drilling	ALTERATION SCALE  <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE HQ Reduce to NQ @ 266.4m	
DATE STARTED May 31, 1996	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED June 21, 1996	
DIP TESTS see attached sheet for Sperry-Sun Surveys	
COMMENTS massive sulphide zone 464.5 - 471.5	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
107				106.5-109.0 GREEN/WHIT BLK SHEARED ARGILLITE ARTF very sheared carb./chl altered arg. 106.8-107.1 - foln para to ca. irregular cc patches and smeared out lenses and local bright green chl patches. irregular late q. veining min sericite.								
108												
109												
110				109.0-121.6 MASSIVE/SANDED BLK ARGILLITE ARMS dm blk arg w/ 1-2 mm attenuated siliceous bands - local patches of green chl, irregular patchy quartz veing								
111												
112				111.3-111.6 - breccia green chloritic type material - lots of silicification throughout unit. occl late carbonate stringers and veins								
113												
114												
115												
116												
117												
118												
119												
120												
121												
122												
123												
124												
125												
126												
127												
128				121.6-123.4 QUARTZ VEIN mainly white massive QTVN qv w/ blk arg inclusions, and min chl as green blotches and stringers								
129												
130				123.4-138.3 MASSIVE BLACK ARGILLITE ARMS massive-finely laminated arg - black, aphanitic. Min sic bands 1-4 mm 125.9-126.4 - qtz veining - breccia min chl. 126.5-126.7 qv w/ chl incl. 1% py as clots on foln.								
131												
132												
133												
134												
135												
136												
137												
138												
139												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
130				ARMS (cont.)							
131											
132											
133											
134											
135											
136											
137											
138											
138.3-139.4				138.3-139.4 CALCAROUS DACITIC GREEN TUFF							
139				TF4 SIMILAR TO TF3 (103.4-106.5) but							
140				MORE CALCAROUS. SHARP UPPER AND							
141				LOWER CONTACTS (INTRUSION?).							
142				CHLORITIC, MOD. SER. ALTN.							
143				139.4- MASSIVE BLACK ARGILLITE							
144				ARMS GEN BLACK SPHANTIC STG WITH LOCAL							
145				MM SCALE SILICEOUS BANDS AND							
146				RARE LENS SHAPE. LOCAL SILICIFICATION							
147				LOCALLY CARBONACEOUS. OOLITE							
148				CALCITE VEINING AND SPLITCHES.							
149				TR PY ON Fdn, lots at 2-3 cm							
150											
151				151.0 - 152.1 - gravel zone							
152											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
199				ARTF (CONT)							
200				99.4-200 - jagged core - poss. fault.							
201				tuffaceous component increases downhole argillite is mixed with bands of green tuffaceous with and light grey siliceous material. pyrite clots ≈ 3-5mm on fractures throughout unit							
202				203-3-203.5 - section of banded green and brown chloritic mildly calcareous tuff							
203				204.0-205 - section of banded am + brown locally calcareous chloritic tuff with brown micaceous partings - py clots - stringers.							
204				204.2-204.4 - slightly brecciated qv w/ tuffaceous rd and a pink lime							
205				209.6 - 10 cm at + un - faulted (cont)							
206				209.7-214.1 BANDS GREEN AND BROWN ANDESITIC TUFF - fine grained green tuff with brown micaceous partings local patches and bands of calcite some surrounded by dark brown disseminated mineral (leucocane?) gradational lower contact as grain size increases.							
207				214.1-219.2 COARSE CHLORITIC ANDESITE TUFF (or simply andesite?) dark green chloritic coarse grained differs from above tuff b/c of very coarse grain size increase in chlorite content yellow green irregular patches - patches and bands of dark brown grainy mineral - possibly leucocane. (belle?) use associated with calcite - qb throughout unit (alteration of plag?) occl fine disseminated blk min prob chl.							
208				219.2-223.0 GREY-GREEN MASSIVE TUFFACEOUS PHYLLITE							
209				RHMC							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
222				RHMS (cont.) - glassy textured unit grey to pale green rhy interbedded with ~ 50-60% banded brown and green chlorite buff at 30 cm.							
223				semitic partings of rhy - cause air with rapid - ab folding of tuffaceous beds							
224											
225				223.0-224.1 RHFR FRAGMENTAL RHYOLITE As found in previous holes.							
226				Mostly siliceous material - quite							
227				semitic. top of unit is very dark main siliceous matrix							
228				with smaller more regularly oriented siliceous bands and plagioclase lenses. gradually grades to ragged							
229				siliceous fragments with increasing siliceous matrix. ~ 1% Mn oxide							
230				clots on fractures occasional interbeds of mafic - int green/brown							
231				massive-banded occasionally melted. siliceous - siliceous unit often							
232				interbedded with arg on a mm scale.							
233				230.7-230.8 - int giv. incl of green + ... and rhyolitic rock							
234											
235											
236											
237											
238											
239											
240											
241											
242											
243											
244											

50°

55°

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
243				RHFR							
246											
247				247.2 - 248.2 Qtz vein in rhyolite							
248											
250				250 - 252.1 matrix of rhyolite							
252				252.1 - 256.6 Fault / Gouge Zone STFL end faulted up with irregular fractures + Qtz veins small breccia with Qtz fragments matrix of rhyolite							
256				256.6 - 262.4 FRAGMENTAL RHYOLITE RHFR blk matrix, gry/wht clasts w/ ragged edges, clast size mostly in the 5x15 mm size range							
258				258.3 - 258.5 Qtz vein							
262				262.4 - 267.7 Fault Gouge + crushed rock							
267				267.7 - FRAGMENTAL RHYOLITE RHFR same as 256.6							
264				264.6 - 264.9 - Qtz vein - shattered w/ gry							
266				266.1 Breccia - rhyolite							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				RHR (continued)							
268											
269											
270				270.9-271.5 Quartz vein							
271				unit is more matrix (arsenite)							
272				rich towards base, fragments smaller up to 50% matrix							
273											
274											
275											
276											
277	60°			277.0-280.1 CALcareous ARGILLACEOUS LAPILLITUFF / TUFFACEOUS ARGILLITE							
278				banded dk gray-blk arsenite w/ 10-20% calcareous lapilli (?) and gray CO ₂ fragments. T ₂ py on fets.							
279	60°										
280	60°			280.1-282.5 NO CORE (DHLC)							
281	60°			282.5-300.8 PALE GREEN BANDED ZHYOLITE RHH1 really ground up core, numerous lost intervals. Rock is aphyric + platy - arg component - w/ weak ser + bl altn.							
282											
283				Green + white bands							
284											
285											
286											
287											
288											
289											
290											

60°
60°
60°

NO CORE
GROUND CORE

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
291												
292												
293												
294												
295												
296												
297												
298												
299												
300												
301				300.8-317.6 BANDED LAPILLI-ASH TUFF RHAL Pale green banded tuff, mm-cm scale bands defined by sericitic partings. Upper part to 310 m matrix siliceous + fine grained lower part contains white to cream colored lapilli to 3x12 mm and local white silica bands								
302												
303												
304												
305												
306												
307												
308												
309												
310												
311												
312												
313												

GROUND VA CORE

GROUND CORE

105

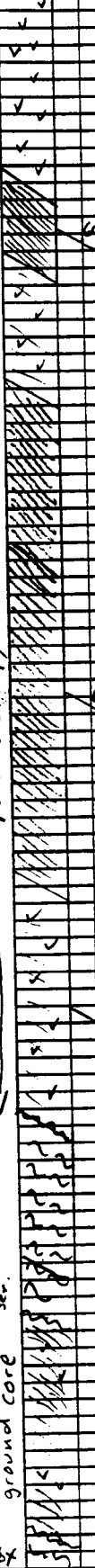
50%

309-309.5 calcareous bands to 2 cm thick

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
314											
315											
316											
317											
317.6-324.0				RHYOLITE LAPILLI TUFF							
				RHTF							
318				similar in texture to RHER but							
				with >50% matrix. blk wispy							
319				matrix material w/ white lapilli							
				up to 1cm thick, most are between							
320				3-5 mm thick. Lapilli often ovoid.							
				Trace of py on fms margins and							
321				traces of diam of							
322				lower contact gradational to green							
				siliceous rock.							
323											
324.0-329.3				BANDED/MASSIVE LAPILLI TUFF							
				RHAL							
324				Pal green chloritic lapilli with							
				to msu rhy. could be chloritized							
325				equivalent to above unit, texturally							
				similar but no black matrix and							
326				lapilli are smaller + flatter.							
				Traces of py on fms							
327											
329.3-336.4				INTERBEDDED RHYOLITE + ARGILLITE							
				ARRH							
328				thinly laminated sericitic rhy tuff,							
				aphric msu silica, and black argillite.							
329				Rhy tuff layers to 10 cm thick, w/							
				brn/gry sericite, argillite is							
330				laminated black w/ 1-2% py bands							
				+ stringers.							
331											
332				Some of the tuff bands have							
				small qtz eyes (334.2m).							
333				Argillite has rootless intrafolial							
				folds def. by thin silica bands.							
334											
335				333.5-333.6 - Qtz vein w/py							
336											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
360				361.8-363.0 BLACK ARGILLITE ARMS								
361				thinly laminated blk arg, locally contorted layering. Tr-1% py along fol and in xcutting veinlets.								
362				363.0-364.0 PALE-GREEN SILICEOUS VOLCANIC RHFS								
363				banded green/wht rhyolite?, Flow? (RHFL?) really broken core, 15% recovery,								
364				364.8-372.0 BLACK ARGILLITE								
365				laminated blk arg., 2-3% pyrite, local cisthocks and intrafolial folds defined by thin silica bands.								
366				367.1-367.3 Qtz vein								
367				372.0-375.5 BANDED APHANITIC RHYOLITE RHFL								
368				pale green to white banded silica rock w/chloritic partings tr py along foliation. aphyric, broken core.								
369				375.5-377.6 SHEARED BLACK ARGILLITE STSH								
370				sheared and bxd blk/grey argillite								
371				377.6-378.3 SHEAR/FAULT STSH								
372				sericitic zone of sheared material with minor blk arg. at base.								
373				378.3-381.6 BROKEN ARGILLITE/RHYOLITE ARRH								
374				broken zone containing frags and pieces of blk argillite and pale green rhyolite. poor recovery, ground core.								
375				381.6-392.2 FAULT BRECCIA/GOUGE								
376				bxd zone w/sericitic + clay gouge + qtz veins.								
377												
378												
379												
380												
381												
382												

very poor recovery
poor recovery / broken core
shear zone
ground core



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
382.7-387.1				IRON FORMATION							
383				EXMP chlorite-silica-magnetite-pyrite rock							
384	25%		BXCD	upper contact and top 30cm brecciated and gougy w/bits of msu py and chl-mag rock. top of unit contains							
385				msv + dism mag, msu to semi-msu py @ 382.9-383.0. Brecciated sericite + chbkt zone 383.0-385.0 (only 25% recovery)							
386	15%			385.0-387.1 - chlorite + magnetite w/no pyrite. Poor recovery (15%).							
387.1-392.3				CALCITE-PYRITE ROCK							
388				EXCP massive to delicately banded calcite-pyrite unit, banding cm-mm scale. CO ₂ varies from white to dirty grey in color, always recrystallized, py occurs as thin 1-2 mm bands and sporadic disseminations. Py bands ~10% of total rock.							
389				388.7-388.9 Qtz veins in CO ₂							
392.3-395.3				NO CORE							
395.3-398.6				CALCITE-PYRITE ROCK							
393				same as abv. but layering at 70° to core axis.							
398.6-404.2				BANDED CHLORITIC TUFFACEOUS RHYOLITE							
396				banded white rhy + med-dk green tuffaceous argillite. banding on cm to 3-4 cm scale. mod-strong chl altn. broken core. Tr py on foln. PA=70°							
397				broken qtz vein at top 10cm, lower contact marked at 14 cm qtz vein and start of sheared, bxxd rock.							
404.2-406.3				FAULT ZONE							
400				STFL 14 cm qtz vein at top, remainder is bxxd and sheared chl + qtz and mod blk argillite 1-3% dism py							
401											
402											
403											
404											
405											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Cu	Ag	Cu	Pb	Zn
						ppm	ppm	%	%	%
		388.0	387.1	4.10	107544	30	-	.0032	-	.019
		387.1	389.2	2.10	107545	-	-	.0018	.061	.0022
		389.2	392.3	3.1	107546	15	-	.0036	.075	.005
		395.3	397.0	1.70	107547	-	-	.0017	.057	.002
		397.0	398.6	1.60	107548	-	-	.0022	.082	.0012
		404.2	406.3	2.10	107549	-	-	.0056	.022	.0618

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
406				406.3-410.6 CHLORITE ALTERED RHYOLITE TUFF RHCT (STSH) dk green chl altd tuff, banded on 3-4 mm scale. strong deformation, shearing parallel to foln, contorted layering and several 2-3 cm sheared gouge zones. chl altn changes to more sericitic altn towards bottom of unit. logged as shear zone in Log II.								
407												
408												
409												
410				410.6-411.8 CALCAREOUS FINE GRAINED MASSIVE ROCK ? not sure what this is. med-dk grey weakly foliated rock w/ abundant carbonate and CO ₃ + Qtz + chl veining. sharp upper + lower contacts, carbonated dike?								
411												
412												
413												
414				411.8-412.1 BLACK ARGILLITE ARST siliceous blk arg, contorted layering, upper + lower contacts sheaved. Tr py in veinlets x-cutting foln.								
415												
416				412.1-414.1 ? same rock as 410.6-411.8 w/ more veining. veins @ 10-20° to core axis								
417												
418				414.1-415.7 BLACK ARGILLITE ARMS upper contact sheaved @ 40° to CA. platy lam blk arg to 414.5, sheaved + broken core to 415.7. Abundant py 5-7% in foln and in x-cutting stringers.								
419												
420												
421				415.7-416.7 SAND - NO CORE DNLC								
422				416.7-418.2 SILICEOUS BLACK ARGILLITE ARSI pretty broken up core but mostly laminated siliceous argillite. 2-3% py along foln.								
423												
424				418.2-418.8 APHANITIC RHYOLITE RHFS pale green aphanitic silica rock. ground core.								
425												
426				418.8-422.1 NO CORE DHLC								
427				422.1-427.2 APHANITIC RHYOLITE RHFS pale green/tan aphanitic silica rock, broken core, poor recovery.								
428												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.		
					A	B	C	D	E				
429	BROKEN CORE	ARTF		427.2-432.8	TUFFACEOUS ARGILLITE								
470					dk grey to black argillite with 10-20% silica bands. really broken core.								
431					432.8-434.3	NO CORE							
432					DHLC								
433					434.3-436.1	INTERBEDDED ARGILLITE/RHYOLITE							
434					ARRH	black argillite (tuffaceous) interlayered with massive aphanitic rhyolite. Top 50 cm is rhy, remainder is arg w/ 1-2 cm thick bands of rhy.							
435					434.8-434.9	CO ₂ rich argillite band							
436					435.6-435.7	CO ₂							
437					436.0-436.1	CO ₂							
438					436.1-444.4	APHANITIC RHYOLITE							
439		RHFS	pale green to wht to lt grey aphyric aphanitic rhyolite. weak banding on cm scale										
440		438.8-439.0	CO ₂ fragments in dk gry matrix										
441		440.9-441.0	sugary wht CO ₂ w/ py clots to 5mm										
442		441.5-441.6	bxxd zone w/ chl in matrix										
443													
444		444.2-444.4	lt gry CO ₂ band w/ qtz veinlets										
445		444.4-445.0	NO CORE										
446	NO CORE	ARTF		DHLC									
447					445.0-446.2	TUFFACEOUS ARGILLITE							
448					446.2-449.9	MASSIVE APHANITIC RHYOLITE							
449						cream to pale green colored aphanitic silica rock, locally banded on cm scale. Tr py assoc. w/ CO ₂ bands.							
450					447.5-447.7	CO ₂ bands; w/ py bands to 5mm							
451					448.8-449.0	sand, ground core							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.			
					A	B	C	D	E					
				449.9-450.7	CALCITE - PYRITE ROCK									
452				EXCP	grey CO ₂ w/ 10% wispy py bands. laminated on 2-3 mm scale.									
453					Very top (10cm) is siliceous and base (2cm) is silica + 30% pyrite.									
454				450.7-452.3	GREY/GREEN APHANITIC RHYOLITE									
455				RHS	rubby core, 16% recovery									
455				452.3-456.7	TUFFACEOUS ARGILLITE									
456					blk argillite w/ 20% tuffaceous component consisting of bands + lenses of silica, tr-1% py.									
457					2 CO ₂ bands 10 cm thick at top.									
458					vuggy py fragment 5x30 mm at 457.7									
458					"Z" shaped drag fold at 456.5									
459				456.7-457.9	SERICITE ALTERED RHYOLITE TUFF									
459				RHST	pale green, greasy, sericite altd tuff, lower 15 cm chlorite & sericite. alteration is pervasive									
460					ser w/ patchy chl replacement ↑ towards base. Small fault at 457.3 (20° & loca)									
461				457.9-460.5	QUARTZ EYE - FSP RHYOLITE TUFF									
462				RPTF	grey to green grey rhy tuff, 5% qtz phenos 1-2 mm, 7-10% fsp phenos 0.5-1.0 mm, mostly altd to CO ₂ . Variable sericite alteration, weak at top, increasing w/ depth to pervasive at 460-460.5.									
463					Thin 4cm lam blk arg at top of unit. minor (<10%) argillite interbeds. Tr-2% vfg dism py.									
				460.5-462.1	TUFFACEOUS ARGILLITE									
				ARTF	lam blk arg w/ 20-25% lapilli + tuffaceous component. Tr dism py.									
				462.1-462.8	SERICITE ALTERED TUFF									
				RHST	light pale green ser altd tuff, pervasive, rare qtz phenos, lower 5cm is clay gouge.									
				log continued on next page										

scale continued on next page

ser > chl
chl > ser

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
464				462.8-464.5 GRAPHITIC ARGILLITE / GOUGE ARGR black sooty graphitic arg, mostly (STGG) gouge ~10% pyrite.							
465				464.5-464.7 PYRITE RICH MASSIVE SULPHIDE PYMS fine ar banded pyrite w/ 8mm qtz vein at top (cutting).							
466				464.7-464.8 BLACK ARGILLITE (graphitic) ARGR sooty graphitic argillite w/ 2-5% py bands ~ 1mm thick.							
466				464.8-465.5 PYRITE RICH MASSIVE SULPHIDE PYMS massive to banded pyrite 5% qtz stringers cutting							
467				465.5-465.54 ZINC RICH MASSIVE SULPHIDE >30% sphalerite + py + tetrahedrite							
468				465.54-466.68 PYRITE RICH MASSIVE SULPHIDE msv to banded py, increasing sph content from ~5% at top to +15% at bottom.							
469				466.68-466.73 GRAPHITIC ARGILLITE ARGR thin band of sooty arg w/10% py.							
469				466.73-466.80 PYRITIC SEMI-MASSIVE SULPHIDE fine grained semi-msv py + silica							
470				466.80-466.82 GRAPHITIC ARGILLITE sooty arg w/ 5% py							
470				466.82-467.66 POLYMETALLIC MASSIVE SULPHIDE banded py + sph, sph ↑ towards base. buckshot py in sph @ 467.54-467.60							
471				467.66-467.70 PYRITIC SEMI-MASSIVE SULPHIDE py + CO ₃ + lesser sph + cpy (<<1%)							
471				467.70-468.14 GRAPHITIC ARGILLITE ARGR finely laminated gr. arg w/ 10% py bands (<1mm)							
472				468.14-468.50 POLYMETALLIC MASSIVE SULPHIDE massive py > sph > cpy, banded py + sph grades in to semi-msv py > sph > cpy at bottom 8 cm. clots of dk green to blk chl in lower 8 cm.							
				468.50-469.40 BLACK ARGILLITE ARCB carbonaceous sooty blk arg w/15% 4mm thick bands of sph and py. 2-3% vfg pb in stringers parallel to foln.							
				469.40-470.38 CALCITE - PYRITE - SPHALERITE ROCK grey sugary (CO ₃ + py (10%) + sp (2%)) finely banded on 2-4 mm scale.							
				470.06-470.10 Qtz vein w/ chl clots.							

Note expanded scale

scale continued on next page

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				massive sulphide interval continued from p. 40							
473				470.38-470.47 PYRITIC SEMI-MASSIVE SULPHIDE >50% PY w/ minor CO ₂ + silica							
474				470.47-471.50 POLYMETALLIC MASSIVE SULPHIDE massive PY + sph, PY 80%, SP 20% except for bands of sph rich ms at 470.73 - 470.77 and 471.12 - 471.27.							
475				471.22 - 471.40 PY = sph, clots of dk grn chl = 10%.							
476				471.31-471.35 20% buckshot py in sph rich ms							
477				471.5-471.65 CALCITE-PYRITE-COPY ROCK EXCP grey CO ₂ w/ 10% py and 1-2% cpy stringers parallel to foln.							
478				471.65-471.72 Qtz-CO ₂ vein							
479				471.72-482.4 SERICITE-CHLORITE ALTERED RHST RHYOLITE RHYOLITE TUFF							
480				grey green banded tuff, banding on 0.5-2cm scale, chl altn = ser altn to 474.0m, below 474.0 ser altn dominates. occasional siliceous lapilli but < 5%. lapilli increase towards base. Traces of sphalerite in thin 1-2mm bands << 1% overall, minor cpy assoc w/spl.							
481				482.4-489.2 SERICITE ALTERED LAPILLI TUFF RHST pale green lapilli tuff, pervasive sericite alteration, siliceous wht lapilli to 2x10mm approx 10-15% of rock. Traces of dissm py + sp + pb py > pb > sp. unit is weakly banded on cm scale.							
482				489.2-497.1 SERICITE ALTERED TUFF RHST pale green thinly banded tuff, selectively pervasive sericite alteration, alternating bands of sericitized tuff and chloritic fine grained tuff							
483				496.8-497.0 Quartz vein							
484				497.1 - small fault perpendicular to core axis, 5cm bxx zone to dissm py along foln.							
485											
486											
487											
488											
489											
490											
491											
492											
493											
494											
495											

Broken core / poor recovery

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		474.0	476.0	2.0	104970	-	-	.0023	.0004	.0184
		476.0	478.0	2.0	104971	10	.8	.091	.0044	.1155
		478.0	480.0	2.0	104972	5	.2	.0264	.0008	.302
		480.0	482.4	2.4	104973	10	.4	.0402	.085	.483
		482.4	484.4	2.0	104974	-	-	.0214	.069	.337
		484.4	486.2	1.8	104975	-	-	.0075	.0064	.0116
		486.2	489.2	3.0	104976	-	-	.0016	.0036	.0096
		489.2	495.0	5.8	104976	-	-	.0038	.0128	.046

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
496				497.1-499.6 SERICITIC RHYOLITE TUFF RHST pale brown-green calcareous tuff, thin 1-3 mm bands of py banding on cm scale							
497											
498				499.6-502.5 QUARTZ VEIN ZONE w/ser altn qtz + Qtz-CO ₂ veins in pervasively sericitized pale green tuff lots of shearing in the tuff units between veins.							
499				Qtz veins at: 499.6-499.8 (Q-C)							
500				500.1-500.4							
501				500.6-501.1, 501.15-501.4							
502				banded py to 6 cm @ 500.6 offset by small fault at 30° to CA.							
503				another fault @ 501.7 offsets py bands fit @ 35° to CA.							
504				Abundant sulphides (~5% total) in this zone, py >> sph							
505				base of unit gougy + crushed. * same unit as in 96-31 502.0 metres							
506				502.5-506.0 SERICITE ALTERED RHYOLITE TUFF RHST pale green/grey sericitic tuff, locally calcareous, banded on 3-5 mm scale, zones of strongest sericite altn assoc. w/foln parallel shears.							
507				tr banded py (1-2 mm) and very minor sph, mostly dism. rare qtz eyes.							
508											
509				506.0-507.9 SHEAR ZONE / FAULT STSH sericitized fault gouge and sheared tuff, lots of clay, 3-5% dism py in sheared zone.							
510											
511				507.9-509.7 SERICITIC RHYOLITE TUFF RHST grey/grey green sericitic banded full bands on 2-3 mm scale, strong foln parallel shearing, 2-3% dism py, lower contact faulted at 90° to core axis.							
512											
513											
514				509.7-510.6 SERICITIC RHYOLITE LAPILLI TUFF RHSL grey/brownish sericitic lap. tuff, lap composed of qtz + minor CO ₂ , laminae on 2-5 mm scale, lower contact sheared.							
515											
516				510.6-511.1 FAULT STFL 0.5 m thick zone of shearing, foln locally parallel to core axis, strong sericite altn.							
517											
518											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Cu	Ag	Cu	Pb	Zn
		495.0	497.1	2.1	104978	-	.4	.003	.0056	.032
		497.1	499.6	2.5	104979	-	.6	.0029	.0106	.070
		499.6	502.5	2.9	104980	-	1.6	.0017	.0134	.0758
Note change in sample numbers.		502.5	506.0	3.5						
		506.0	507.9	1.9						
		507.9	509.7	1.8						
		509.7	510.6	0.9	105104					
		510.6	511.1	0.5	105105					
		511.1	513.0	1.9	105106					
		513.0	515.0	2.0	105107					
		515.0	517.0	2.0	105108					
		517.0	519.0	2.0	105109					

Result
 Primary
 105101 } 45
 105121 } 45

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				511.1-538.3 SERICITIC RHYOLITE TUFF							
519				RHST grey to pale green rhyolite tuff.							
520				variable sericite altn, locally strong around small shears but overall decreasing with depth.							
521				locally massive but mostly bedded on mm → cm scale, rare qtz phenos but alteration is pervasive and obscures primary textural details. locally massive rhyolite w/relict fsp phenos.							
522				mineralization: tr - 7% dissm py throughout, occasionally banded. rare sphalerite assoc. w/py bands and strong ser. altn.							
523											
524											
527				517.9 - 1-5% sph in thin 2 mm band							
528				528-529 - lapilli zone							
529				529.4-530.7 - strong ser altn, 2-3% sph, 5-7% py in bands 2-10mm thick (assoc. w/yellow green alteration)							
530											
531				local bands of py + silica							
532											
533											
534											
535											
536											
537				537.4 - 2mm sph band w/CO ₂							
538											
539				538.3-540.4 ARGILLACEOUS TUFF							
540				RHAT thinly bedded (1-3mm) tuff w/argillite component, med grn color, weak ser + chl altn.							
541											
542											

524.9-526.1 NO CORE

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		519.0	521.0	2.0	105110				
		521.0	523.0	2.0	105111				
		523.0	524.9	1.9	105112				
		526.4	528.4	2.0	105113				
		528.4	530.7	2.3	105114				
		530.7	532.9	2.2	105115				
		532.9	534.8	1.9	105116				
		534.8	536.8	2.0	105117				
		536.8	538.3	1.5	105118				
		538.3	540.4	2.1	105119				
		540.4	543.7	3.3	105120				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
543				540.4-543.7 CONTORTED ZONE IN MIXED ARGILLITE/TUFFACEOUS ARGILLITE strongly deformed. platy banded grey/white color, layering on 3-5mm scale, highly contorted and sheared zone. Tight chevron folds defined by silica + CO ₂ bands (white)							
544											
545											
546				540.4-546.5 QTZEYE-FSP CRYSTAL TUFF							
546.5				RPTF med grey crystal tuff with 5-10% blue grey qtz phenos to 2mm, most about 1mm, 2-5% fsp phenos to 1mm, most fsp slightly carbonate altered.							
EOH				top 30 cm of unit is sheared.							
				minor CO ₂ , 30% white fragments ~0.5 x 2mm, lithic frags?							
				Tr-1% dism fine pyrite along folw.							

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample	RxTyp
WV96-32	336.40	338.00	1.60	107537	EXMP
WV96-32	338.00	339.00	1.00	107538	EXMP
WV96-32	339.00	341.80	2.80	107539	RHFS
WV96-32	342.50	343.20	0.70	107540	RHFS
WV96-32	343.20	343.50	0.30	107541	EXMT
WV96-32	343.50	345.00	1.50	107542	RHFS
WV96-32	382.20	383.00	0.80	107543	EXMP
WV96-32	383.00	387.10	4.10	107544	EXMP
WV96-32	387.10	389.20	2.10	107545	EXCP
WV96-32	389.20	392.30	3.10	107546	EXCP
WV96-32	395.30	397.00	1.70	107547	EXCP
WV96-32	397.00	398.60	1.60	107548	EXCP
WV96-32	404.20	406.30	2.10	107549	STFL
WV96-32	406.30	410.60	4.30	107550	RHCT
WV96-32	410.60	411.80	1.20	104951	? DIKE
WV96-32	411.80	412.10	0.30	104952	ARSI
WV96-32	412.10	414.10	2.00	104953	?
WV96-32	414.10	415.70	1.60	104954	ARMS
WV96-32	457.90	460.50	2.60	104955	RPTF
WV96-32	460.50	462.10	1.60	104956	ARTF
WV96-32	462.10	462.80	0.70	104957	RHST
WV96-32	462.80	464.50	1.70	104958	ARGR
WV96-32	464.50	465.50	1.00	104959	SSMS
WV96-32	465.50	466.68	1.18	104962	SSMS
WV96-32	466.68	466.82	0.14	104960	ARGR
WV96-32	466.82	467.70	0.88	104961	SSMS
WV96-32	467.70	468.14	0.44	104963	ARGR
WV96-32	468.14	468.50	0.36	104964	SSMS
WV96-32	468.50	469.40	0.90	104965	ARCB
WV96-32	469.40	470.38	0.98	104966	EXCP
WV96-32	470.38	471.50	1.12	104967	SSMS
WV96-32	471.50	471.72	0.22	104968	EXCP
WV96-32	471.72	474.00	2.28	104969	RHST
WV96-32	474.00	476.00	2.00	104970	RHST
WV96-32	476.00	478.00	2.00	104971	RHST
WV96-32	478.00	480.00	2.00	104972	RHST
WV96-32	480.00	482.40	2.40	104973	RHST
WV96-32	482.40	484.40	2.00	104974	RHSR
WV96-32	484.40	486.20	1.80	104975	RHSR
WV96-32	486.20	489.20	3.00	104976	RHSR
WV96-32	489.20	495.00	5.80	104977	RHSR
WV96-32	495.00	497.10	2.10	104978	RHST
WV96-32	497.10	499.60	2.50	104979	RHST
WV96-32	499.60	502.50	2.90	104980	RHST

WV96 - 32				Sperry-Sun	Grid	True
Survey Type	Depth (ft.)	Depth (m)	Inclination	Azimuth	Azimuth	Azimuth
Collar	0	0.0	-65	-	0	35
Sperry-Sun	120	36.6	-67	4	1	36
Sperry-Sun	200	61.0	-67.5	6	3	38
Sperry-Sun	300	91.4	-71	3	0	35
Sperry-Sun	385	117.3	-73.5	4	1	36
Sperry-Sun	442	134.7	-74	3	0	35
Sperry-Sun	517	157.6	-75	0	-3	32
Sperry-Sun	617	188.1	-77	5	2	37
Sperry-Sun	695	211.8	-80	10	7	42
Sperry-Sun	812	247.5	-83	356	353	28
Sperry-Sun	910	277.4	-86	348	345	20
Sperry-Sun	1000	304.8	-85.5	330	327	2
Sperry-Sun	1107	337.4	-86	330	327	2
Sperry-Sun	1207	367.9	-87	320	317	352
Sperry-Sun	1307	398.4	-87	311	308	343

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EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverin Regional Drill Program</i>	GROUND ELEV. <i>1365 m</i>
HOLE NO. <i>WV-96-33</i>	BEARING <i>180°</i>
LOCATION <i>16 559.10 N 18 030.3 E</i>	DIP <i>-75°</i>
	TOTAL LENGTH <i>302.10 m (991')</i>
LOGGED BY <i>Andrew Turner</i>	HORIZONTAL PROJECT
DATE <i>June 4 / 96</i>	VERTICAL PROJECT
CONTRACTOR <i>F. Boisvenue Diamond Drilling</i>	ALTERATION SCALE
CORE SIZE <i>NQ II</i>	TOTAL SULPHIDE SCALE
DATE STARTED <i>June 1 / 96</i>	
DATE COMPLETED <i>June 6 / 96</i>	
DIP TESTS <i>Acid Test - 900 - '65</i>	
COMMENTS <i>- well developed EXCP 92.8 97.75m. - sample - siliceous rock @ w.d. horizon ? @ 172.15 - 173.4m</i>	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0				0-2.13m <u>CASING</u>							
2.13m to 19.75m				<p>THINLY BANDED GREENISH-GREY RHYOLITE</p> <ul style="list-style-type: none"> - 75-80% v. fine gr. (aphanitic), Greenish-grey siliceous (Rhyolite) bands (1-3cm) - remaining portion of unit consists of 2-27cm straight to wavy (whispy) sericitic partings or interbands. - occasional weathered Rhy. band @ pitted texture + orangey (FeOx) discoloration - tr-1% disc. 5-1mm cubes/Mt - tr disc py. - lower 3m badly broken/fract'd @ FeOx - QU's - massive, white: (11 fol'd) <p>18.75m - 18.40m, 18.55m - 18.80m, 18.85m - 19.15m, 19.45m - 19.60m</p>							
19.75m to 20.55m				<p>VERY THINLY BANDED / LAMINATED SILICEOUS ARGILLITE AND RHYOLITE</p> <ul style="list-style-type: none"> - alternating, 1-5mm banded hard (sil's), dark grey to black siliceous arg. with and lighter grey Rhyolite - overall dark grey to very dark grey color - abundant micro folds shown by lighter grey bands - tr disc py - QU' at top, gradational contact below to slightly thicker banded (1-2cm) lighter grey (silica-rich) Rhy. - QU @ 19.80m - 20.10m 							
20.55m to 21.30m				<p>THINLY BANDED GREY RHY.</p> <ul style="list-style-type: none"> - 90%+ thin (1-3cm), v. fine gr. (aphanitic), light grey Rhyolite bands @ minor sericitic partings. - minor thin 1-3mm Mt bands @ 21.10m. 							
21.30m to 22.10m											

DEP	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.										
					A	B	C	D	E												
23				21.30 m to 22.40 m																	
24				CHLORITIC Mt-poor Fe Fm. - thinly banded, dark grey and dark green laminar.																	
25				- thin 1-2mm, fine-gr. Mt. bands up to 5-10% locally - generally v. fine gr.																	
26																					
27				22.40 m to 23.60 m																	
28				V. THINLY BANDED ARGILLITE AND RHYOLITE																	
29				- as above, v. dark grey, laminated to thinly banded, chloritic (?) - @ an irregular quartz vein @ chloritic alteration of walls : 22.70m - 22.80m																	
30																					
31				23.60 m to 27.75 m																	
32				MASSIVE LIGHT GREY CHERTY RHYOLITE																	
33				- vague - 1-5cm, massive, v. fine-gr (cherty), light grey Rhyolite - < 5% sericitic partings.																	
34				27.75m to 29.30m																	
35				THINLY BANDED TUFFACEOUS RHY																	
36				- thinly banded to laminated - mixed bag of chloritic, thinly banded tuffaceous and light grey siliceous Rhyolites - 1-2% blebby py																	
37				29.30m to 29.90m																	
38				CHLORITIC Mt-poor Fe Fm. - as above																	
39				29.90m to 30.80m																	
40				MASSIVE LIGHT GREY CHERTY RHYOLITE																	
41				- as above (slightly greater sericitic component)																	
42				30.80m to 32.00m																	
43				CHLORITIC Mt-poor Fe Fm 1/4- THINLY BANDED DARK GREY TUFFACEOUS RHY.																	
44				- bit of a mixed section. - upper section + lower section (~ 30-40 cm each) dark green, chloritic v. fine-gr silica - Mt Fe Fm (v. thinly banded)																	
45				- middle section exhibits an increase in the silica or Rhy component. - only 3-5% v. fine-gr Mt in place.																	
46																					

Chloritic Mt Fe Fm

Chloritic Mt Fe Fm

batholith core

* Magnetic susceptibility data range from 3.0 to 40.0 in all 3 chloritic - Mt Fe Fms

DEP	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
47				32.00 m to 37.55 m SILICEOUS ARGILLITE								
48				- Fairly sharp contacts above + below								
49				- v. dark grey to black color								
50				- thinly banded (2-30mm)								
51				- occasional lighter grey silica-rich bands								
52				Faulted(?) - to 1% v. fine dis + stringer py								
53				- minor Graphite on folia planes.								
54				37.55 m to 52.0 m (?) LIGHT GREENISH GREY								
55				52.0 m (?) SERICITIC RHYOLITE								
56				↑ end of - quite badly broken core, overall								
57				Box 7 estimated grey + greenish grey (sericitic) color								
58				- thinly banded with up to 70%, 0.5-3cm, light grey to greenish grey silica-rich bands (Rhyolitic) and ~30% v. fine grd., laminated (sheared?) darker grey, greenish grey and brownish sericite rich inter bands								
59				- to dis py.								
60				- small QU @ ~44.0m								
61				52.0m to ARGILLITE AND SIL'S ARG.								
62				~630m (?) - as above (32.0m to 37.55m)								
63				(crushed core) - but with 2-3% dis + stringery								
64				(poor recov.) Fairly v. fine py to fol'n.								
65				- qtz-lenses (sheared QU's?)								
66				1-2cm x 3-4cm between 53+54m								
67				- Barron, which QU's fol'n at;								
68				(53.04 m to 53.14m, @ 57.75m,								
69				57.55m to 57.61m + @ 57.70m. +								
70				at approx. 60.0 to 60.15m.								
71				→ minor blobby py, 4% chl/graph blebs								
72				63.0m to (Badly broken to crushed core of...)								
73				75.0m LIGHT GREENISH GREY								
74				SERICITIC RHYOLITE								
75				- poor recovery. - interval consists of 1 to 3-4 cm fragments of core of light grey to greenish grey,								
76				v. fine grd. (cherty) - silica-rich sericitic Rhyolite								

drill return containing sil. frags. and was light grey, turned black in underlying arg. matrix.

(1.2 near top)

good recovery

(badly broken, poor recov.)

50%

DEPT	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
69											
70											
71											
72											
73											
74											
75				75.0 m to ARGILLITE AND SIL'S MRG							
76				76.0 m (?) - as above							
77				(crushed) - crushed section - faulted(?)							
78				- minor dark green chlorite / ser. alb. Rhyolite material							
79				CHLORITIC RHY GOUGE							
80				78.0 m to - crushed section of core consisting							
81				79.6 m (?) primarily of crushed & gouged,							
82				v. dark green, chl (1% ser) altered							
83				siliceous Rhyolite							
84				79.6 m to CRUSHED TO GOUGED LIGHT							
85				86.2 m GREENISH GREY RHYOLITE							
86				- name says it all.							
87				86.2 m to CARBONATE / MT-POOR Fe Fm							
88				89.7 m - overall very light gray color,							
89				mottled, sugary texture							
90				(slightly coarser grained than Rhy)							
91				- minor yellow discoloration							
92				(Fe-Carbonates) up to 5%							
93				black? Mt Bands + coarse dissems							
94				- up to 3-5% dis + sharp PY .5-3cm bands @ up to 30% PY							
95				also, 2-3% thin spl strgs.							
96				- sharp transition from Mt-rich Fe Fm							
97				89.7 m to Mt-SILICA Fe Fm.							
98				90.9 m - v. dark grey to black unit							
99				- up to 30-40% thin, fingered,							
100				Mt. bands with a siliceous							
101				matrix and minor HCl							
102				reaction							
103				- to 1% dis + sharp py. spl(?)							
104				Fract @ 20% CA @ top @ massive Fe ser Mt + blocky PY.							

Crushed

Crushed

Crushed

Mt, spl

Mt, spl

Mt

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		72.85	75.9	3.05	107345	-	-	.004	.0006	.0086
		75.9	78.0	2.1	107346	10	.4	.0104	.0012	.068
		78.0	79.6	1.6	107347	40	.2	.0055	-	.0036
		79.6	82.0	2.4	107348	20	-	.0093	-	.0024
		82.0	85.04	3.04	107349	-	-	.0164	.0002	.0032
		85.04	86.25	1.21	107350	-	-	.0027	.0024	.012
		86.21	88.0	1.79	107351	-	-	.0019	.02	.0852
		88.0	89.7	1.7	107352	-	-	.0036	.0188	.13
		89.7	90.90	1.2	107353	-	-	.0022	-	.04
		90.9	91.78	.88	107354	-	-	.005	.0152	.012
		91.78	92.8	1.02	107355	10	-	.0019	.026	.0842

DEF	%	CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
						A	B	C	D	E		
92					90.9m to - MASSIVE LIGHT GREY RHYOLITE							
93					91.78m - massive to vaguely banded v. fine grd. (aphanitic), light grey. Rhy							
94					- gradational upper contact with minor d3 + banded Mt							
95					- sharp lower contact							
96					- minor v. light grey calcareous interbands.							
97					91.78m to CARBONATE/SILICA/Mt Fe5m							
98					92.8m - mixed bag of siliceous and calcareous and semi-massive Mt. bands							
99					- thinly banded 1-5cm							
100					- overall grey to dark grey color							
101					- med. grd. successic texture.							
102					- Qtz-carb-chl-py-mt vein @ 92.3m - 92.5m. Mt-Py-Chl concentrated on edges of vein							
103					92.8m to CARBONATE-PY EXHALITE							
104					97.75m - medium to light grey, successic texture, vague banding - overall mottled appearance,							
105					- with minor irregular carbonate and quartz veining							
106					- up to 10-15% fine xline + bubbly py in 1-5cm py +/- silica bands + disseminations throughout							
107					- Qtz vein @ 96.20m - 96.45m with semi-massive Py							
108												
109					97.75m to BLACK PYRITIC RHYOLITE							
110					98.80m - massive, aphanitic, black, cherty Rhyolite (?) with 5cm defined by up to 10% very fine xline wh3py laminated-banded py							
111												
112					98.80m to INTERBANDDED GREY CARBONATE/PY and SILICA/PY EXHALITE (?)							
113					101.06m - 10-20 cm, successic, pyritic, grey calcareous bands, + up to 30%, 5-10cm slightly darker green fine grd. silica-py bands							
114					- py on tiny xline - pyrich bands							
115					- 4-1% sph (?) (99.45m)							

Qtz vein (mt + py)

Qtz vein

carb + Bar?

sph carb

gouge au

sph

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		92.8	94.22	1.44	107356	-	-	.0035	.032	.126
		94.22	96.25	2.03	107357	-	-	.0021	.0196	.0368
		96.25	96.50	.25	107358	.15	.4	.0051	.045	.0106
		96.50	97.9	1.4	107359	-	-	.0017	.016	.0824
		97.9	98.8	.9	107360	-	.6	.0031	.072	.0028
		98.8	101.0	2.2	107361	-	-	.0027	.03	.0164
		101.0	103.0	2.0	107362	-	.4	.007	.0062	.0438
		103.0	104.5	1.5	107363	-	-	.0062	.0012	.0178
		104.5	106.0	1.5	107364	-	-	.0057	.003	.0046
		106.0	107.6	1.6	107365	-	-	.0058	.0018	.004
		107.6	109.3	1.7	107366	-	-	.0065	.0032	.002
		109.3	111.0	1.7	107367	-	-	.0067	.004	.0028
		111.0	112.6	1.6	107368	-	-	.0122	.011	.08
		112.6	112.93	.33	107369	-	-	.0081	.004	.0156
		112.93	114.43	1.5	107370	-	-	.0091	.006	.012
		114.43	115.52	1.09	107371	-	-	.0077	.0022	.114

DEP	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
115											
116	20		75	- QV's, massive white ball gte veins @; 99.5m-99.55m, 100.56m to 100.68m, 100.8m to 100.88m, + 100.95 to 101.05m. ↳ 5% py on walls.							
117											
118				101.06m to 107.6m MASSIVE LIGHT GREY RHYOLITE							
119				- massive appearance with only minor vague banding							
120				- unit becomes sucrosic with carbonate + Barite (?) between 105 + 106 m							
121				- trds py.							
122				107.6m to 111.0m CARBONATE / CHLORITE / MT FeFm							
123				- thin, chaotic (folded + sheared) banding.							
124				- primarily very thinly banded to laminated grey and dark greenish grey chloritic Fe nod bands (1-5mm), with occasional 1-3cm sucrosic, light creamy grey carbonate bands.							
125				- up to 50% Fe nod, thinly banded Mt primarily within the laminated chlorite sec's.							
126				- tr-1% ds, Fe py thin py throughout							
127											
128											
129				111.0m to 111.4m DARK GREY RHYOLITE							
130				- grey to dark grey color, thin banding (1-3cm)							
131				- Argillaceous Rhy. (?)							
132				- v. Fe nod.							
133				- sharp contacts.							
134				- 2-3% thin sph strgs.							
135				111.4m to 111.7m THINLY BANDED CARBONATE ROCK							
136				- grey and light grey, slightly coarser grained (sucrosic), thinly banded (1.5-1cm)							
137				111.7m to 112.6m DARK GREY RHYOLITE							
138				- as above (w sphal strgs (1-2%))							
139				112.6m to 112.93m CHAOTIC / BRECCIATED DARK GREEN - GREY CHL-CARB ALTERED MT Fe Fm (?)							
140				- name says it all							

Broken + Gouged
60-65% rec

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		115.52	118.51	2.99	107372	10	.6	.007	.0048	.044
		118.51	120.5	1.99	107373	15	1.4	.0068	.0066	.0522
		120.5	123.1	2.6	107374	10	.8	.0051	.008	.0206
		123.1	124.7	1.6	107375	40	-	.0068	.006	.0066
		127.7	130.76	3.06	107377	-	-	.006	.002	.0046
		130.76	133.3	2.54	107377	-	-	.0045	-	.0036
		133.3	133.7	.4	107378	-	-	.0028	.0014	.003
		133.7	135.5	1.8	107379	-	-	.0043	-	.0068
		135.5	138.0	2.5	107380	-	-	.005	-	.0108

DEPT	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
138				112.93m to 123.1m FAULTED ARGILLITE, SILICEOUS ARGILLITE, AND GRAPHITIC ARG.							
139				- complex zone with v. badly broken to gouged core, but @ good recovery. (80-90%)							
140				- v. dark grey to black, Fin. grad, thinly banded, Arg., sil's Arg. and serphitic Arg.							
141				- Gouge zones: 113.3-113.45m, 113.65-114.4m, 118.25m-122.1m							
142				- QV's; (barren ch, trs) - 113.45m-113.6m, 114.7m-114.77m, 115.7m-115.75m, 120.5m-121.0m @							
143				graphite & chlorite veins.							
144				- 1-2% dis py throughout, 1-2% thinly banded sphal string. (sph = 114.6m)							
145				- Carb/chl alteration locally in gouge.							
146											
147											
148				123.1m to 130.76m FAULTED ZONE - ARGILLITE, GRAPHITIC ARGILLITE, AND FRAGMENTAL RHYOLITE (RHR)							
149				- mixed zone - broken to gouged							
150				- ~60% badly broken - gouged, v. Fin. grad, thinly banded (clm) dark grey - black, Argillite & siliceous Argillite, with graphite							
151				- ~40%, broken pieces of light grey, v. Fin. grad (aphanitic), Fragmental (1cm - 5cm - Flattened clasts(?) with a dark grey - black argillaceous matrix.							
152				- minor chl/ser alteration of gouged zones.							
153				- tr-1% py (primarily in gouge)							
154											
155				130.76m to 140.90m MASSIVE LIGHT GREY RHYOLITE							
156				- massive, very vague irregular darker grey siliceous & sericitic bands/laminae, in a light grey, aphanitic (cherty) Rhyolite							
157				- 133.3-133.7m = Carbonate horizon, tr-nil py - very closely resembling surrounding Rhy.							
158				- unaltered nil - tr dis py							
159				- 3 or 4 other, thin (1.5cm) carbonate horizons.							
160											
161											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		138.0	139.5	1.5	107382	-	-	.0064	-	.0132
		139.5	140.9	1.4	107383	-	-	.0059	.0002	.0054
		140.9	141.55	.65	107384	15	-	.0055	.0024	.017
		141.55	143.3	1.75	107385	-	-	.0089	.0003	.0164
		143.3	144.3	1.0	107386	-	.2	.005	.0002	.0028
		144.3	146.0	1.7	107387	-	.4	.0094	.001	.0028
		146.0	148.0	2.0	107388	-	-	.0057	.0004	.0032
		148.0	150.0	2.0	107389	-	-	.0059	.0002	.0032
		150.0	152.0	2.0	107390	50	-	.0067	-	.003
		152.0	154.0	2.0	107391	10	-	.0075	-	.003
		154.0	155.5	1.5	107392	10	.4	.0108	.0004	.0036
		155.5	158.5	3.0	107393	15	.6	.0059	.0026	.0156
		158.5	161.25	2.75	107394	5	.4	.0061	.0036	.0178

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
140.90m to 155.40m		ARGILLITE AND SILICEOUS ARG.		<ul style="list-style-type: none"> - very consistent unit of thinly banded (2cm), v. dk. grey, r. dk. grey to black Argillite and lighter grey sil' Arg / Rhy (aphanitic) - strong fol'n, sheared Rhy bands sometimes appear fragmental(?) (particularly between 143.3 + 144.3m) - tr. v. fine. dsz py. 							
155.40m to 158.70m		ARGILLITE AND GRAPHITIC ARG. GOUGE		<ul style="list-style-type: none"> - crushed + gouged, black, thin bedded to lam'd, chaotically bedded, graphitic Argillite - minor broken (1-2cm) Qtz + chl ms - 1-2% fine v. fine stry + dsz py 							
158.70m to 160.3m		V. THINLY INTERBANDS ARGILLITE AND RHYOLITE		<ul style="list-style-type: none"> - very similar - same as - SIL'S ARG above (140.9 - 155.4m) - 1-5mm bands of grey, aphanitic, Rhy with up to 60% 1-5mm bands of v. dk. grey to black Argillite + Sil's Arg. (4-Graph) - broken fractured - tr. v. fine stry + dsz py. 							
160.3m to 161.25m		ARGILLITE AND GRAPHITIC ARG. GOUGE		<ul style="list-style-type: none"> - as above (155.4-158.7m) - chaotically bedded to gouged. - minor green chl / ser alt'n of some Rhy units - tr. v. fine py 							
161.25m to 169.47m		SHEARED ARGILLITE AND RHY. or LAPILLI TUFF (?)		<ul style="list-style-type: none"> - Fragmental looking, however strong argillaceous component (matrix). - Rock consists of ~ 60-70% light to dark grey, aphanitic, siliceous fragments (?) - Rhy., approx .5cm x 1-3cm @ occasional continuous bands in an argillite matrix - gouge zones @ sensitive alt'n. 							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		161.25	163.5	2.25	107395	-	1.0	.0036	.0304	.154
		163.5	165.5	2.0	107396	-	.6	.0034	.0044	.033
		165.5	166.5	1.0	107397	-	1.6	.0039	.0076	.0258
		166.5	169.5	3.0	107398	5	3.8	.0071	.016	.1895
		169.5	171.55	2.05	107399	10	1.0	.0036	.01	.0628
		171.55	172.85	.6	107400	-	4.0	.0188	.057	.205
		172.15	173.4	1.2	107401	20	1.4	.0103	.0168	.173
		173.4	175.75	2.35	107402	-	.8	.0088	.0053	.0662
		175.75	176.2	.45	107403	-	2.6	.0177	.016	.772
		176.2	177.5	1.3	107404	-	.4	.0306	.0016	.106
		177.5	178.15	.65	107405	-	-	.0344	.0006	.0276
		178.15	180.0	1.85	107406	-	-	.0087	.0004	.0116
		180.0	182.0	2.0	107407	-	-	.0874	.0008	.0164
		182.0	184.0	2.0	107408	-	-	.0025	-	.0072

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
184												
185				- 1st 3m of interval become very shaly + graphitic @ .5-1cm py/sph bands ~ 168m (~5-10% over 10cm)								
186				- Gauge @ 163.2, 163.8, 165.4, 166.0, 167-168m								
187				- upper contact is gradational, lower contact abrupt - end of core run - with a qtz breccia in a 2m ~ 10cm zone @ sph + my stringers.								
188												
189												
190				169.47m to SERICITE ALTERED RHY TUFF								
191				- qtz-sar-schist								
192				- light grey-green color, @ ~75% white to greenish grey, v. thinly banded, sericite @ minor qtz material, vague qtz-eyes (?)								
193												
194				- gauge zone @ qtz/py @ 190.9m								
195				- several 1-2mm sph stringers in lower gradational contact zone								
196												
197				171.55m to ARGILLITE + SIL'S ARGILLITE								
198				- dark grey, green + black colors - v. fr. grad, thinly banded to lam'd - abundant, 1-2mm, sph. stringers (2-3% total)								
199				- overall competent appearance - definite tuffaceous component								
200												
201				172.15m to SILICA-PY-SERICITE ROCK SILICIFIED TUFF (?)								
202				- dark grey-greenish grey color - mottled appearance, very siliceous, very fine grained								
203				- 3-5%, very finely xlin to blebby py and 1-2% sph - banded.								
204				- probable qtz-eyes toward bottom of unit								
205												
206				173.43m to ALTERNATING SERICITIC TUFFS AND ARGILLITE (as above)								
207				- tuff to 175.75m, arg to 176.20m, tuff to 177.50m, arg to 178.15m, tuff to 187.1m gauge to 188.0m + arg to 191.7m								

Gauge

Thin 1-5mm gauge zones

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		184.0	185.75	1.75	107409	-	-	.0012	.0014	.0246
		185.75	187.9	2.15	107410	-	-	.0007	.001	.0178
		187.9	189.9	2.0	107411	-	2.6	.0016	.0082	.0764
		189.9	191.7	1.8	107412	S	1.2	.002	.005	.0422
		191.7	194.0	2.3	107413	-	-	.0006	.002	.0056
		194.0	196.5	2.5	107414	-	-	.0011	.0018	.0048
		196.5	198.5	2.0	107415	-	-	.0004	.0018	.0048
		198.5	200.5	2.0	107416	-	-	.0004	.0018	.0046
		200.5	202.5	2.0	107417	-	-	.0006	.002	.0046
		202.5	204.0	1.5	107418	-	-	.0006	.0016	.0038
		204.0	205.5	1.5	107419	-	-	.0006	.0016	.0042
		205.5	207.0	1.5	107420	-	-	.0006	.002	.004

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
207				- green sericitic tuffs + black argillites as described above except lower tuff (178.15m to 187.10m)							
208				- lower tuff is Qtz-pherric @ up to 20-25%, 3mm x 10mm, grey + blue-grey "Qtz-eyes"							
209	gouge			- 1-3% stgr py + sph in argillites, 1-2% fully dz. py + stgr py in tuffs, 1-2% patches of fully xline py in gouge + lower argillite.							
210											
211											
212											
213				191.70m to "QUARTZ-EYE UNIT"							
214				205.00m QUARTZ-PHERIC RHYOLITIC TUFF(C)							
215				- overall greenish gray color							
216				- strongly foliated (= banded)							
217				- approx 25%, grey + blue-grey, 2-5mm Qtz-eyes, along with grey-grey fully xline Qtz patches in a light grey, sericitic-rich, foliated matrix (~60%)							
218				- "Qtz-pherric-sericitic schist" best describes the unit without interp. of protolith.							
219				- tr- fully dz py							
220				- Fairly sharp contact above, gradational below into a sheared version of itself.							
221											
222				205.7m to SHEARED to GOUGED "QUARTZ-EYE" UNIT (as above)							
223				- Large zone of shear in the Qtz-eye unit							
224				- Very thin 1-5mm banding @ stretched out light grey, fine gr. silica rich patches separated by grey to greenish grey, v. fine gr. sericitic schist bands. (?)							
225				- almost looks argillaceous (?). however, unit is Qtz-pherric.							
226				- tr-1% fully dz + stgr py throughout							
227				- gongol: 207.1-207.4m, 208.3-208.6m, 209.9-210.25m,							
228				- QU- white Qtz + chl; 211.2-211.35m + 212.05m-212.20m							
229											
230											



gouge

distinction showing green ch / ser alteration

bleb py

gouge

QU

QU

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		267.0	269.0	2.0	107421	-	-	.0007	.002	.0048
		209.0	211.0	2.0	107422	-	-	.0008	.0028	.0064
		211.0	212.7	1.7	107423	-	-	.001	.0016	.008
		212.7	213.5	.8	107424	-	-	.0007	.0014	.003
		213.5	215.8	1.5	107425	-	-	.0006	.0014	.0042
		215.8	217.35	1.55	107426	-	-	.001	.003	.015
		217.35	219.6	2.25	107427	-	.4	.0007	.0136	.0106
		219.6	220.1	.5	107428	-	1.0	.0013	.0096	.773
		220.1	222.25	2.15	107429	-	4.0	.0016	.156	.937
		222.25	224.0	1.75	107430	-	1.8	.001	.049	.224
		224.0	225.7	1.7	107431	-	2.2	.0008	.03	.205
		225.7	227.7	2.0	107432	-	3.0	.0006	.071	.134
		227.7	229.7	2.0	107433	-	-	.0003	.0024	.0026
		229.7	231.7	2.0	107434	-	-	.0003	.002	.002

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-33	200.50	202.50	2.00	107417
WV96-33	202.50	204.00	1.50	107418
WV96-33	204.00	205.50	1.50	107419
WV96-33	205.50	207.00	1.50	107420
WV96-33	207.00	209.00	2.00	107421
WV96-33	209.00	211.00	2.00	107422
WV96-33	211.00	212.70	1.70	107423
WV96-33	212.70	213.50	0.80	107424
WV96-33	213.50	215.80	2.30	107425
WV96-33	215.80	217.35	1.55	107426
WV96-33	217.35	219.60	2.25	107427
WV96-33	219.60	220.10	0.50	107428
WV96-33	220.10	222.25	2.15	107429
WV96-33	222.25	224.00	1.75	107430
WV96-33	224.00	225.70	1.70	107431
WV96-33	225.70	227.70	2.00	107432
WV96-33	227.70	229.70	2.00	107433
WV96-33	229.70	231.70	2.00	107434
WV96-33	231.70	234.00	2.30	107435
WV96-33	234.00	235.80	1.80	107436
WV96-33	235.80	237.44	1.64	107437
WV96-33	237.44	239.50	2.06	107438
WV96-33	239.50	241.50	2.00	107439
WV96-33	241.50	243.50	2.00	107440
WV96-33	243.50	245.50	2.00	107441
WV96-33	245.50	247.50	2.00	107442
WV96-33	247.50	249.50	2.00	107443
WV96-33	249.50	251.80	2.30	107444
WV96-33	251.80	253.08	1.28	107445
WV96-33	253.08	253.65	0.57	107446
WV96-33	253.65	255.12	1.47	107447
WV96-33	255.12	256.00	0.88	107448
WV96-33	256.00	257.80	1.80	107449
WV96-33	257.80	259.20	1.40	107450
WV96-33	259.20	261.20	2.00	107451
WV96-33	261.20	264.00	2.80	107452
WV96-33	264.00	266.00	2.00	107453
WV96-33	266.00	268.00	2.00	107454
WV96-33	268.00	270.00	2.00	107455
WV96-33	270.00	272.00	2.00	107456
WV96-33	272.00	273.70	1.70	107457
WV96-33	273.70	274.50	0.80	107458
WV96-33	274.50	275.85	1.35	107459
WV96-33	275.85	277.50	1.65	107460
WV96-33	277.50	279.50	2.00	107461
WV96-33	279.50	281.50	2.00	107462
WV96-33	281.50	285.00	3.50	107463
WV96-33	285.00	287.80	2.80	107464
WV96-33	287.80	290.00	2.20	107465
WV96-33	290.00	292.00	2.00	107466

Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-33	292.00	294.00	2.00	107467
WV96-33	294.00	296.00	2.00	107468
WV96-33	296.00	298.00	2.00	107469
WV96-33	298.00	300.00	2.00	107470
WV96-33	300.00	302.06	2.06	107471

WOLVERINE REGIONAL STRATIGRAPHIC DRILL PROGRAM

DDH WV-96-33
 L18000E/16550N
 (Az: 215, Dip: -75)

- Massive Light Grey Rhyolite
- Qtz Porph (+/- Feld Megxt) Rhy (Tuff ?)
- Grey-Green Rhyolite
- Dark Grey Rhyolite
- Argillite-Rhyolite
- Argillite
- Black Graphitic Argillite
- Magnetite-Silica (+/- Chlorite) Iron Fm.
- Magnetite-Carbonate Iron Formation
- Carbonate Exhalite Unit

2-3%, thin, sph/py strgrs

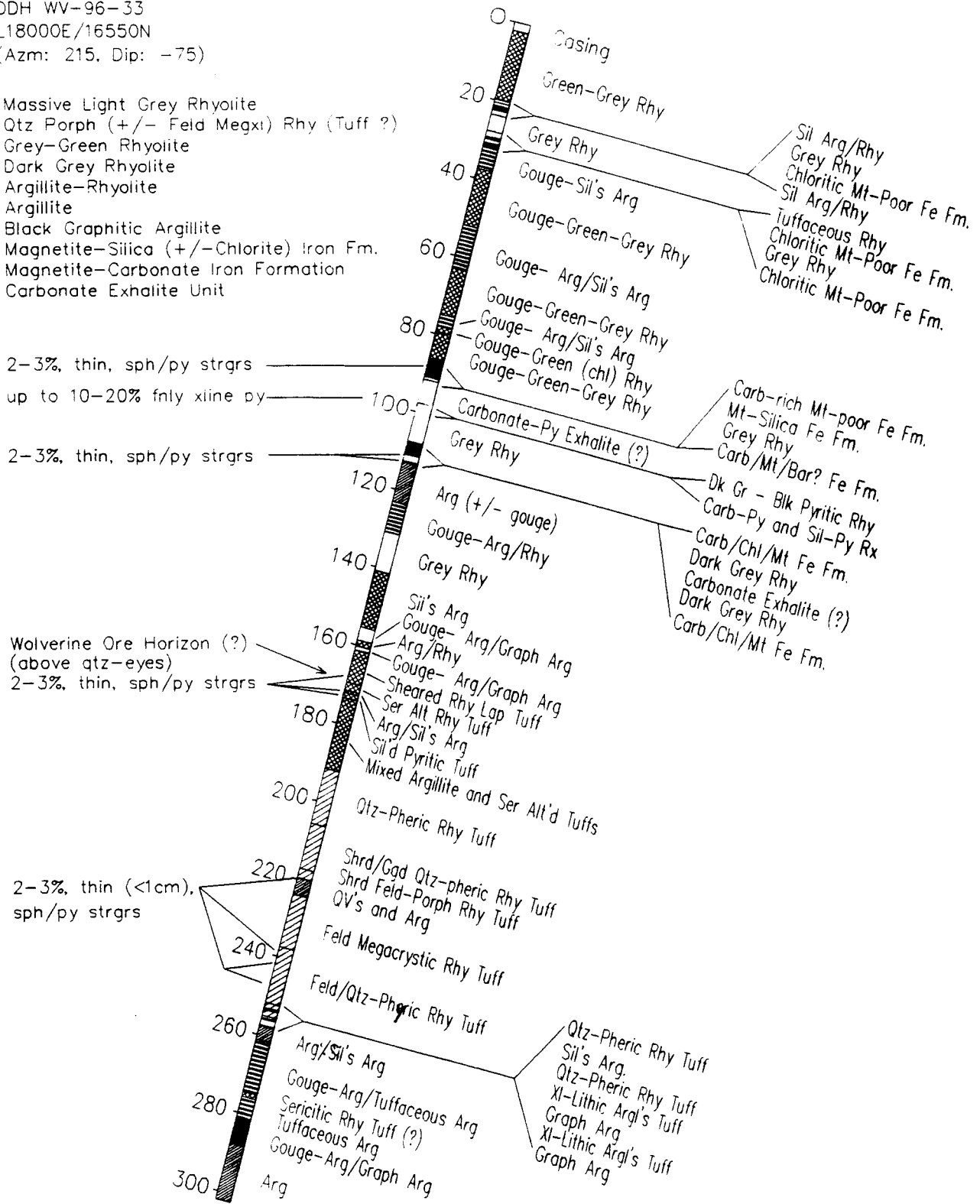
up to 10-20% fny xiine py

2-3%, thin, sph/py strgrs

Wolverine Ore Horizon (?)
 (above qtz-eyes)
 2-3%, thin, sph/py strgrs

2-3%, thin (<1cm),
 sph/py strgrs

EOH - 302.06m (991')



A. Turner, P. Geol.
 Westmin Resources Ltd.
 May 22, 1996

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		231.7	234.0	2.3	107435	-	-	.0002	.0002	.0038
		234.0	235.8	1.8	107436	-	-	.0002	.0016	.002
		235.8	237.4	1.6	107437	-	-	.0002	.0022	.0028
		237.4	239.5	2.06	107438	-	.8	.0003	.0086	.0638
		239.5	241.5	2.0	107439	-	1.8	.0004	.035	.194
		241.5	243.5	2.0	107440	-	1.4	.0003	.0236	.0778
		243.5	245.5	2.0	107440	-	3.0	.0004	.043	.111
		245.5	247.5	2.0	107441	-	2.6	.0007	.0384	.622
		247.5	249.5	2.0	107442	-	1.0	.0006	.024	.0764
		249.5	251.8	2.3	107443	-	-	.0008	.0024	.005
		251.8	253.08	1.28	107444	-	.8	.0008	.003	.0028

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
253											
254				- Very little mineralization within the massive megacryst unit itself, however m/sph concentrated in upper transitional zone (badly broken core)							
255											
256				257.44m to 251.8m (?) QUARTZ PORPHYRYIC RHYOLITIC TUFF (?)							
257				- very similar, if not the same, as above. However, the large, white, irregular Megacrysts are notably absent.							
258											
259				- as above - overall light gray-green color, foliated Fin. grad. qtz ser schist @ phenos. (gradational contacts)							
260				- phenos - ~10-20% total comprising dark grey to blue-grey qtz-eyes (2-8mm) and (2-10mm) v dark grey-green, chlorite alter'd, mafic phenos or clasts (?)							
261				- abundant, thin (<1cm), sphal + py stringers (bands) ~1-2% overall							
262											
263											
264											
265				251.8m to 253.08m "QUARTZ-EYE UNIT" - QTZ-PHERIC RHYOLITE TUFF							
266				- overall grey to dark grey color (not as sericite altered as above)							
267				- abundant 30-40%, dark grey to blue green, 3-15mm, qtz-eyes in a foliated qtz ser (Fin. grad.) matrix							
268				- ~1% string py							
269											
270				253.08m to 253.65m SILICEOUS ARGILLITE							
271				- dark grey, laminated, siliceous, v. Fin. grad. with sharp contacts.							
272				253.65m to 255.12m "QUARTZ-EYE UNIT" QTZ-PHERIC RHYOLITIC TUFF							
273				- as above (251.8m to 253.08m) except more intense sericite alth producing a lighter greeny-grey color							
274				- gauged with a 14cm Qtz-vein between 254.1 + 255.12m							
275											
276											

QU

XL-LITHO DUBBES

graphite Arg

gauged

gauged

gauged

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		253.08	253.65	0.57	107446	-	-	.0007	.002	.0054
		253.65	255.12	1.47	107447	-	-	.0007	.002	.003
		255.12	256.0		107448	-	-	.0011	.0022	.0044
		256.0	257.8	1.8	107449	-	-	.0019	.0034	.016
		257.8	259.2	1.4	107450	-	-	.0008	.0022	.0052
		259.2	261.2	2.0	107451	-	-	.0005	.002	.0026
		261.2	264.0	2.8	107452	-	-	.0008	.0032	.006
		264.0	266.0	2.0	107453	-	-	.0009	.0034	.0056
		266.0	268.0	2.0	107454	-	-	.0009	.0024	.004
		268.0	270.0	2.0	107455	-	-	.0007	.0016	.003
		270.0	272.0	2.0	107456	-	-	.0009	.0018	.0014
		272.0	273.7	1.5	107457	-	-	.0007	.0014	.0014
		273.7	274.5	.8	107458	-	-	.0009	.0028	.0096
		274.5	275.85	1.35	107459	-	-	.006	.002	.0048
		275.85	277.5	1.65	107460	35	-	.001	.002	.0022

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
276				255.12m to 255.70m	CRYSTAL LITHIC ARGILLACEOUS TUFF							
277					- overall dark grey to black, well foliated							
278					- 50-60%, 2-3mm, blue grey white qtz eyes, 3-5mm white feldspars, and 10-20% thin 5mm x 3mm, fm. grad. argillite fragments (well flattened)							
279					- matrix of argillaceous material							
280					- resembles a debris flow.							
281					- 2-1% py as stringers + blebby							
282												
283				255.70m to 256.00m	GRAPHITIC ARGILLITE							
284					- v. dk grey to black, graphite-rich							
285					- folia / beds convoluted - sheared to gneissal → v. tight isoclinal folding							
286					- minor dark green chl along folia surfaces, to dr py.							
287				256.0m to 257.5m	CRYSTAL-LITHIC ARGILLIC TUFF							
288					- as above (blue qtz-eye-rich)							
289				257.5m to 257.8m	GRAPHITIC ARGILLITE							
290					- as above (255.7 - 256.0m)							
291				257.8m to 261.2m	ARGILLITE - SILICEOUS ARG.							
292					- v. dk grey, thinly banded to laminated argillite with occasional band, dk grey, v. fm grad, siliceous bands.							
293					- minor graphite components							
294					- to dr py, chl on fracture/folia planes.							
295				261.2m to 274.5m	CRUSHED TO GOUGED ARGILLITE AND GRAPHITIC ARGILLITE							
296					- AND TUFFACEOUS ARGILLITE							
297					- unit predominantly composed of crushed to gneissal, v. fm grad, thinly banded to laminated argillite + siliceous Arg. with graphite zones (minor)							
298					- unit distinguished by occasional ~10% large (3-8mm), blue grey qtz-eye							
299												

gauge

qu

py

qu

qu

qu

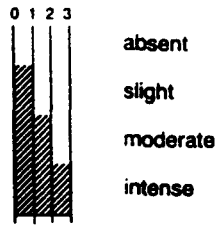
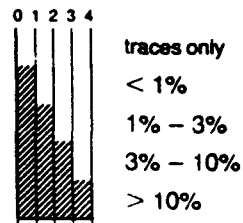
Wolverine Drill Samples - 1996

Hole	From	To	Interval	Sample
WV96-33	6.00	7.50	1.50	107317
WV96-33	10.50	12.00	1.50	107318
WV96-33	15.00	16.50	1.50	107319
WV96-33	18.00	20.10	2.10	107320
WV96-33	20.10	21.30	1.20	107321
WV96-33	21.30	22.40	1.10	107322
WV96-33	22.40	23.60	1.20	107323
WV96-33	23.60	25.85	2.25	107324
WV96-33	25.85	27.75	1.90	107325
WV96-33	27.75	29.30	1.55	107326
WV96-33	29.30	29.90	0.60	107327
WV96-33	29.90	30.80	0.90	107328
WV96-33	30.80	32.00	1.20	107329
WV96-33	32.00	33.50	1.50	107330
WV96-33	33.50	36.50	3.00	107331
WV96-33	36.50	37.75	1.25	107332
WV96-33	37.75	39.50	1.75	107333
WV96-33	39.50	41.00	1.50	107334
WV96-33	41.00	42.50	1.50	107335
WV96-33	42.50	45.42	2.92	107336
WV96-33	51.51	52.00	0.49	107337
WV96-33	52.00	53.50	1.50	107338
WV96-33	53.50	55.00	1.50	107339
WV96-33	55.00	57.00	2.00	107340
WV96-33	57.00	60.30	3.30	107341
WV96-33	60.30	63.00	2.70	107342
WV96-33	63.00	66.00	3.00	107343
WV96-33	66.00	69.80	3.80	107344
WV96-33	72.85	75.90	3.05	107345
WV96-33	75.90	78.00	2.10	107346
WV96-33	78.00	79.60	1.60	107347
WV96-33	79.60	82.00	2.40	107348
WV96-33	82.00	85.04	3.04	107349
WV96-33	85.04	86.25	1.21	107350
WV96-33	86.26	88.00	1.74	107351
WV96-33	88.00	89.70	1.70	107352
WV96-33	89.70	90.90	1.20	107353
WV96-33	90.90	91.78	0.88	107354
WV96-33	91.78	92.80	1.02	107355
WV96-33	92.80	94.22	1.42	107356
WV96-33	94.22	96.25	2.03	107357
WV96-33	96.25	96.50	0.25	107358
WV96-33	96.50	97.90	1.40	107359
WV96-33	97.90	98.80	0.90	107360
WV96-33	98.80	101.00	2.20	107361
WV96-33	101.00	103.00	2.00	107362
WV96-33	103.00	104.50	1.50	107363
WV96-33	104.50	106.00	1.50	107364
WV96-33	106.00	107.60	1.60	107365
WV96-33	107.60	109.30	1.70	107366

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Ag	Au	Cu	Pb	Zn
		277.5	279.5	2.0	107461	-	-	.0014	.001	.009
		279.5	281.5	2.0	107462	-	.4	.0021	.0026	.0082
		281.5	285.0	3.5	107463	10	3.4	.0124	.0032	.0406
		285.0	287.8	2.8	107464	20	4.0	.0137	.012	.1105
		287.8	290.0	2.2	107465	15	-	.0075	.0025	.0156
		290.0	292.0	2.0	107466	5	-	.0062	.0012	.0144
		292.0	294.0	2.0	107467	-	-	.0061	.001	.0174
		294.0	296.0	2.0	107468	20	-	.007	.0014	.0204
		296.0	298.0	2.0	107469	-	-	.0068	.0006	.0174
		298.0	300.0	2.0	107470	-	-	.0066	.001	.0152

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverine Region Stratigraphic Drilling</i>	GROUND ELEV. <i>1379.9 m</i>
HOLE NO. <i>WV-96-34</i>	BEARING <i>180° (Grid South)</i>
LOCATION <i>L 17408 E / 16643 N</i> <i>1380m elev</i>	DIP <i>-75°</i>
	TOTAL LENGTH <i>295 1/2 (969')</i>
LOGGED BY <i>Andrew Turner / TERRY TUCKER</i>	HORIZONTAL PROJECT
DATE <i>June 8 / 96</i>	VERTICAL PROJECT
CONTRACTOR <i>F. Boisvenue Diamond Drilling</i>	ALTERATION SCALE 
CORE SIZE <i>NQ II</i>	
DATE STARTED <i>June 7 / 96</i>	TOTAL SULPHIDE SCALE 
DATE COMPLETED <i>June 10 / 96</i>	
DIP TESTS <i>Acid test - 969 = -65°</i>	
COMMENTS <i>-</i>	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
27											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
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39											
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41											
42											
43											
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calcareous

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- ds Mt throughout, Mt-rich zones (Mt-Silica FeFm); 29.9-30.2m (chlorite), 30.8-31.0m, 35.05-35.17m, (w minor Carb content in thin water bands), 35.42-36.25m, 37.22-37.25m, 38.05-38.10m, 41.3m to 41.45m, 42.0-42.9m, 43.25-44.65m, - Qtz-veins - fairly massive; white; 31.9-32.25m, 33.9-34.0m, 38.1-

45.0-51.4 Banded RHYOLITE medium fine to abundant limonitic alteration along fractures

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
46											
47											
48											
49											
50											
51											
52				51.4-57.7 FAULT / GOUGE ZONE qtz lines / minor sericite in limonitic mud.							
53											
54											
55											
56											
57											
58				57.7-60.7 RHFL - massive by life - limonite stained sericite partings.							
59											
60				48 60.7-69.8 DHLC							
61											
62											
63											
64											
65											
66											
67											
68											
69											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Am	Ag	Cu	Pb	Zn
		51.4	57.7	6.3	104921	-	.114	.0075	.0004	.0108

57.7 60.7 3.0 104922 - - .0104 .0004 .0116

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
69				69.8-70.3 DARK GREY RHTF py along fractures. chlorite? alteration.							
70				70.3-71.3 EXMT → less mag in a siliceous, chl. altered gneiss							
71				71.3-72.8 RHTF - massive red open sericitic altered							
72											
73				72.8-73.5 Gouge - very black / pyritic clay							
74				73.5-80.7 RHTF - massive non-descript thudite - very black - core							
75				help. out to identify							
76											
77											
78											
79				79.0-80.7 20cm core MSV Q.V.							
80											
81				80.7-87.8 EXCP = massive carbonate with 1-2cm bands massive py and 10cm band massive py and ophacite.							
82				py is laminated and disseminated. sericite and minor chl.							
83				minor msv. q.v. @ 81.4-81.5							
84				84.2-84.5 - disc magnetite in a calc. siliceous matrix							
85											
86				84.5-8 - 85.1 - msv q.v. w chlorite and minor micaceous component							
87				85.1 - 87.8 black calcareous anorthite locally 1-5% py disc throughout							
88											
89				87.8-91.2 RHTF medium green ash							
90				with thin brown interbeds delineated by shearing minor calc along fractures and veins. Original lapilli very shaly and elongate to column.							
91											
92											

%	CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
				91.2-95.2 massive green grey - 2Ll - ... minor become intermixed in minor argillite @ base							
				95.2-100.0 Black to grey intermixed carbonaceous calcareous argillite in a mixed black rhyolitic fragment component broken core, gougy in part							
				100.0-103.9 Gouge -> black argillite? minor green grey argillite component.							
				103.9-114.9 medium green to dk grey MSV thin to ... diss ... along fractures Q? somewhat altered along fractures - appears somewhat fragmental in part but generally MSV. 107.7-105.2 -> Broken core breccia - ... clay matrix 114.8-114.9 - MSV G.V.							
				114.9-119 MSV medium grey RHEL							

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85

Now on ...

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AV	Ag	Cu	Pb	Zn
		94.2	95.2	1.0	104932	-	-	.0064	-	.004
	0	95.2	97.2	2.0	104933	-	-	.005	.0002	.0064
		97.2	100.0	2.8	104934	-	-	.0056	-	.0088
		100.0	103.3	3.3	104935	10	-	.0069	-	.0048
		103.3	106.4	3.1	104936	-	-	.0051	-	.0034
		106.4	109.4	3.0	104937	5	-	.0045	-	.0046
		109.4	112.5	3.1	104938	-	-	.0044	-	.0046
		112.5	115.3	2.8	104939	-	-	.0056	-	.0094

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
114.9-119				MSV RH w 1-3mm fld phenos. (a light crea color) on and disseminations but usually appears along fractures and (laminae?) (aphytic massive RH? but has fld phenos)							
119				115.9-115.95 - 2cm c.v. w galena 2mm							
119-120.8				RHF fragmental w 1-4cm elongate clasts in a dark matrix on terminal face and face splinter							
120.8-123				GOUGE mixed argillaceous and tuffaceous rock							
123-135				RHCT medium green grey rhyolite lapilli tuff in 1-5% ste egs to 1-3mm lapilli are elongate and nonangular - leucoids sericite alteration - minor. microquartz / q.v. @ 132.2							
135-136				tuffaceous unit appears as above but matrix is very black (carbonaceous?) or is chloritine rhyolite minor stringer sp.							

WOLV. ORE
HOR. ZONE

1190

80

123

80

80

135

136

138

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		115.3	117.5	2.2	104940	-	.4	.011	.0012	.0156
		117.5	119.0	1.5	104941	-	-	.0053	-	.0046
		119.0	120.8	1.8	104942	-	-	.01	.0003	.0104
		120.8	123.0	2.2	104943	-	.6	.0051	.0046	.0208
		123.0	126.0	3.0	104944	-	.4	.0009	.0028	.0062
		126.0	129.0	3.0	104945	-	-	.0007	.0023	.006
		129.0	132.0	3.0	104946	-	-	.0008	.0026	.0058
		132.0	135.0	3.0	104947	-	-	.0008	.0022	.0078
		135.0	136.0	1.0	104948	-	1.2	.0084	.0134	.053
		136.0	139.0	3.0	104949	-	.2	.0007	.003	.0078

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
138				136-144.9 RHLT							
139				Medium green banded gtz expt Phylolite tuff							
140				Minor argillaceous component matrix is generally silicified							
141				but also appears to be minor chl. alteration							
142											
143											
144											
145				144.9-157.6 ARTT							
146				Dark Black mudstone is 40% phylolite lapilli - elongate to ~2cm but generally 0.2-0.5cm -							
147				fragments occasionally contains 50% diss. py							
148				Calcareous in part although very localized.							
149				laminated on and minor fracture Other pyro occur occasionally throughout section							
150											
151											
152				* !! Very well mineralized section !! * aa The FW. of WVL zone							
153											
154											
155											
156				155.4 - 155.6 - consists of 7cm dmsv sulphide - trace opy in a spiky matrix - and 1.3cm of black mudstone - a opy filled gtz hosted stringer cutting it							
157											
158				157.6 - 169.9 RHYT - or RHEL ?							
159				looks like massive grey silica with 1-7% clays and hydrosp to 114.9-119.9 2-3mm and minor gtz expt - abundant secondary s.v. clays cutting massive py / sp							
160											
161											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AU	Ag	CU	Pb	Zn
		139.0	142.0	3.0	104950	-	1.2	.0032	.0136	.086
		142	144.9		107472	-	.4	.0018	.0054	.0138
		144.9	148		107473	15	.6	.0031	.01	.0482
		148	151	3	107474	30	1.2	.0145	.013	.084
		151	154	3	107475	25	.6	.0071	.01	.0553
		154	155.4		107476	20	.2	.0018	.0054	.0234
		155.4	155.6		107477	115	7.2	.312	.027	.64
		155.6	157.6		107478	35	1.8	.0059	.013	.1285
		157.6	160.2		107479	90	4.2	.0034	.0136	.198
		160.2	163		107480	55	7.0	.002	.0156	.0362

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		163	165.5		107481	85	6.6	.0017	.0072	.016
		165.5	167.6		107482	55	10.8	.0021	.017	.1385
		167.6	169.9		107483	35	7.2	.0022	.011	.0642
		169.9	171.2		107484	-	2.4	.0101	.0146	.309
		171.2	175		107485	-	.8	.0024	.0034	.0484
		175	178		107486	-	-	.0008	.0012	.0038
		178	181		107487	-	-	.001	.0016	.0036
		181	184		107488	-	-	.0005	.003	.0076

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AV	Ag	CU	PD	ZN
		184	187		107489	-	-	.0006	.002	.0052
		187	190		107490	-	-	.0005	.0018	.0042
		190	193		107491	-	-	.0006	.0022	.0064
		193	196		107492	-	-	.0006	.0022	.007
		196	199		107493	-	-	.0007	.0048	.0053
		199	202		107494	-	-	.0009	.0024	.0038
		202	205		107495	-	-	.0007	.002	.0054
		205	208		107496	-	-	.0006	.0012	.0034

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
207											
208				208.2-210.8 - Gouge							
209				and deformation of							
210				layering is intense							
211											
212				212.7-213.8 - QV in gouge							
213											
214											
215											
216											
217				217.9-239.8							
218				Porphyry unit - opacified							
219				bearing (1-3mm) (20%)							
220				megacrystic feldspars(?) which							
221				locally have been altered							
222				dark green, salmon, black and							
223				occasionally are flesh white.							
224				Pyrite \leq 3mm to 219.4							
225				(chloritized hblid phenos)							
226				foliation $\sim 85^\circ$							
227											
228				223.9-224.5 full quartz							
229											
230				225.2-230 unit is intensely							
				sericitized and cut by a							
				number of shear zones							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		208	211		107497	-	-	.0011	.0016	.0088
		211	214		107498	-	-	.0009	.0014	.0108
		214	217.9		107499	-	-	.0006	.0033	.012
		217.9	218.4		107500	5	.4	.0005	.0046	.006
		218.4	222.2		104981	-	2.6	.0007	.057	.1575
		222.2	225.2		104982	-	.4	.0006	.004	.0298
		225.2	228.2		104983	-	.4	.0004	.0026	.0066
		228.2	231.3		104984	-	.4	.0004	.002	.0116

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
230											
231			ph	232.5-237.8 spherulite bands to 4mm th & throughout entire section.							
232											
233				233.9-236.1 matrix becomes much darker and fold? phenos become black or dark green in color.							
234			sf								
235											
236			sf								
237				Unit becomes increasingly sericitic due to structure at base. G.V contact to lower unit.							
238											
239			<u>239.8</u>								
240				239.8-261.6 ARMS							
241				Very gr. massive rock black. Sphincter thin. layered part to massive							
242				Section is almost entire - 100% quartz.							
243			sf	occasional small spherulites							
244				structure to 2cm							
245			sf								
246				242.2 - 242.5 - QV in gouge to 244							
247				246.2 - 247.6 - Gouge.							
248				247.6 - 248 QV							
249				248 - 248.4 Gouge							
250											
251				250.9 - 251.3 Gouge - 1/8" - 1/4"							
252											
253											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		AU	Ag	Cu	Pb	Zn
		231.3	232.5		104985	-	.6	.0007	.0028	.258
		233.9	236.1		104986	-	1.4	.0017	.0014	.686
		236.1	239.8		104987	-	2.8	.0011	.06	.288
		239.8	243.2		104988	-	-	.0005	.003	.0078
		243.2	246.6		104989	-	-	.0008	.0012	.006
		246.6	249.6		104990	-	-	.0008	.0012	.0058
		249.6	252.6		104991	-	-	.0007	.0024	.0046
		252.6	255.6		104992	-	-	.0007	.0028	.006

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
253											
254											
255											
256											
257				256.2-257.3 <i>COULE</i> = 30° sharp contact = F.W.							
258				258.2-259 <i>COULE</i>							
259											
260											
261				261.6-271.1 <i>AROE</i>							
262				dark black fine grain tuffaceous matrix w/ 5% blue							
263				1-2 mm <i>quartz</i> <i>monol</i>							
264				1-5 mm black argillite bands							
265				stretches white fragments (pumice) to 3-5 mm throughout							
266											
267											
268											
269											
270											
271				271.1-273.0 <i>ARMS</i> - <i>Pumice</i>							
272				medium to dark green matrix w/ 20% laminated and tends to be above w/ thin black arg. bands							
273				273-283.5 <i>AROE</i>							
274											
275											
276											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
276											
277											
278			30								
279											
280											
281			30	281.6 - 282 - Gouge							
282											
283				283.5 - 291.4 - ARMS							
284				fine to med or thinly laminated siliceous argillite							
285			35								
286				286.2 - 286.6 - Fault breccia							
287			30	qtz frags in a matrix dark black argillaceous matrix.							
288				section becoming increasingly apartitic							
289			35								
290			30	291.2 -							
291				291.3 - 295.4 - Arc 3							
292				very black carbonaceous argillite in matrix carbonate							
293											
294											
295				295.4 EDH							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
		276.6	281.6		104998	-	-	.0009	.001	.0062
		281.6	286.6		104999	-	-	.001	.0032	.0088
		286.6	291.3		105000	-	-	.0038	.0012	.0122
		291.3	295.4		105051 (?)					

Table with columns: DEPTH (m), % CORE REC, LITHOLOGY, STRUCTURE, GEOLOGICAL DESCRIPTION, ALTERATION (A, B, C, D, E), FRACTURE INTENSITY, % VEIN QTZ.

DEPTH (m)

% CORE REC

LITHOLOGY

STRUCTURE

GEOLOGICAL DESCRIPTION

ALTERATION



A B C D E

FRACTURE INTENSITY % VEIN QTZ.

EQUITY ENGINEERING LTD.

WV-96-35

DRILL LOG

PROJECT Wolverine	GROUND ELEV. 75 m
HOLE NO. WV-96-35	BEARING 0° GREEN NORTH
LOCATION 1002.4 N 16099.2 E	DIP -60°
	TOTAL LENGTH 571.2 m
LOGGED BY J. Breedlove	HORIZONTAL PROJECT
DATE 6/22/96	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE
CORE SIZE 176 → 476.3 m	 <ul style="list-style-type: none"> absent slight moderate intense
DATE STARTED 6/16/96	
DATE COMPLETED 7/2/96	TOTAL SULPHIDE SCALE
DIP TESTS all attach Summary Page	 <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS MASSIVE Iron sulfide cement 504.9 - 509.1 meters (42.2 meters)	

Diamond Drill Hole WV96-35

Summary of Log Intercept

504.9 - 509.1 (4.2 Meters)

Avg. Core Angle 55.3°

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
504.1	504.9	0.8	Hanging Wall Argillite Siliceous argillite. Interbanded siliceous (silicified ?) dark brown argillite with less siliceous black argillite. Each contain thin, grey discontinuous quartzo-feldspathic +/- carbonate bands. Pyrite is disseminated in the black argillite and is semi-massive to massive (<2.0cm) in the brown siliceous brown argillite bands.
504.9	505.2	0.3	Pyrite >> Sphalerite Massive Sulfide Sharp contact with hanging wall argillite. Carbonate > silica gangue form discontinuous banding along the foliation. Dark brownish red sphalerite occurs as thin discontinuous wispy bands. Moderate amounts of interstitial gangue give the interval a fine mottled appearance.
505.2	506.3	1.1	Sphalerite Rich + Minor Chalcopyrite Massive Sulfide Increasing number of sphalerite rich bands (0.2cm to 4.0cm). Sphalerite is usually interstitial to pyrite in these bands but some have pyrite interstitial to sphalerite. Chalcopyrite occurs as rims around gangue masses and as remobilized networked veining. Weak to strongly magnetic
506.3	506.8	0.5	Pyrite Rich Massive Sulfide Very fine-grained brecciated pyrite or pyrite veined by fine-grained, remobilized, networked pyrite. A 2cm wide anastomosing shear zone occurs within this interval at 506.7. Pyrite + sphalerite lenses occur within the carbonate + silica gangue that defines most of the shear fabric. Weakly magnetic.
506.8	507.6	0.8	Sphalerite Rich Massive Sulfide Very fine-grained brecciated pyrite or pebbly pyrite in fine-grained, remobilized pyrite matrix. Minor chalcopyrite occurs in stringy masses within the slightly coarser pyrite. Dark brownish red sphalerite commonly occurs as amorphous, interstitial material to the coarser pyrite. Sphalerite rich bands are minor in this interval. Moderate to strongly magnetic.
507.6	508.3	0.7	Sphalerite Rich + Minor Chalcopyrite Massive Sulfide Slightly coarser than fine-grained pyrite dominates the interval. Sphalerite occurs as abundant, fine, discontinuous wisps and as bands of 1.0cm or less pyrite + interstitial sphalerite and carbonate and silica gangue. Chalcopyrite occurs as stringy masses within the pyrite. Weak to strongly magnetic.
508.3	508.6	0.3	Pyrite Rich + Minor Chalcopyrite Massive Sulfide Fine-grained pyrite with 20-30% carbonate-silica gangue

discontinuously forms along the foliation. Scattered dark green chlorite fragments float in the sulfides. 2-3% chalcopyrite occurs as stringy massed veining the pyrite. Semi-massive pyrrhotite and sphalerite occur in a 2.0cm band at the end of the interval. This interval grades into the semi-massive portion of the intercept.

508.6 509.1 0.5

Semi-Massive Sulfides with Sphalerite and Chalcopyrite Stringers (?)

Sphalerite stringers (?) +/- pyrrhotite (0.1 to 1.5cm) occur along the foliation with minor pyrrhotite. Chalcopyrite stringers (?) are less common, thinner and discontinuous. Dark green (< 1.0cm) chlorite fragments float within a well foliated light green matrix. A very coarse 2.0cm x 2.0cm ragged chlorite fragment cut by chalcopyrite veinlets. Abundant carbonate > silica gangue. Weak to moderately magnetic.

509.1 510.4 1.3

Footwall Chlorite Altered Lapilli Tuff

Fragment supported matrix. Elongate carbonate altered quartzo-feldspathic lapilli in a chlorite > sericite matrix. Dark green (< 1.0cm) ragged chlorite fragments float within a well foliated light green matrix. Minor sphalerite stringers. Foliation conforming pyrite + chalcopyrite stringers (?) are rare. Weak to moderately magnetic.

510.4 513.4 3.0

Footwall Sericite Altered Tuff

Well-foliated grey to pale green, thinly striped, matrix supported, locally lapilli tuff. Chlorite dominated matrix grades to sericite dominated matrix. Fine lapilli fragments (< 1cm) are variably altered to carbonate. Fine chalcopyrite-stringers occur infrequently. Trace, short, thin (2mm) pyrrhotite laminae are scattered within the interval. Locally moderately magnetic. Hole cut at 513.4.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
22				21.6-24.3 RHFS							
25				24.6-28 less banded more coarse foliated grey amphibole felsite							
26				28-29.3 Strongly foliated - felsite w low FeOx							
27				29.3-30.3 ARSI							
28				27-28 Strongly Broken + oxidized							
29				28-29.3 Strongly foliated - felsite w low FeOx							
30				29.3-30.3 ARSI							
31				29.3-35.7 TR disc p. locally clayate disc. some narrow narrow along the foliation 21% grey to black silty Argillite interlayered with siliceous fg. volcanoclastics/volcanics							
32				35.7-50.3 TFI							
33				35.7-37.8 STRONG BROWN - med. FeOx LOCAL pink white + gritty RHFS ARSI grades quickly w RHFS							
34				STRONGLY Banded green + brown tuffaceous unit bands are disc reflecting shavings -							
35				41% p. within thin discontinuous dark fol. overall grey-green brown unit							
36				45.0 - Spangles of Pyroxene = trace (2%)							
37				45.0 - oblong milky white masses							
38				45.0 - locally amphibious to subhedral p masses w variable size at oxidation							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
46.3				Assymmetric fold along the foliation							
47.0				Increasing discontinuous bands of black argillite between tuffaceous bands							
50.3-56.7				ARTF							
49.8-50.3				Gradational zone into							
50.3-56.7				ARTF-ARSI - Predominantly grey tuffaceous argillite - Zones of blk argillite & siliceous volcanics							
51.0				in the minutes py is flattened along the foliation into a lesser extent in fractures cutting the foliation ~1-2%							
55.0-56.2				Zone of chert + ser alteration							
56.7-62.5				ARCB							
57-57.5				ARCB-PEED. Black Carbonaceous Argillite clay gouge in argillite locally thin layer stripy or more silty layers or elongated fragments(?)							
59.5				Carbonate band along foliation ~20m wide							
60.8-61.3				to foliation CO ₂ vents							
61.7-61.9				CLAY Gouge in Argillite							
62.5-82.3				ARTF							
62.5-82.3				Increasing thin grey siliceous tuffaceous bands with depth - Also increase grey CO ₂ bands + vns - CO ₂ vnt bands often contain py masses							
65.4-65.7				Kink fold the width of the core							
67.2-68.2				Scattered CO ₂ + chert + ser vnt + units							
68.2				Local chert cutting across & along the foliation							
68.2				py masses - disc py - py vnt also cutting across the foliation							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0-3m				Casing DHCS							
3-8m				DHLC							
8.0-11.6				STRONG, foliated green gray seric chlorite phyllite ↳ Bands + lenses of siliceous tuffaceous fig to Aphanitic felsic (rhyolitic) volcanics/volcaniclastics							
9.6-9.8m				Fault STFL							
11.6-29.3				RHFS							
11.6-12.5				Pred v. siliceous felsite + lesser bands of seric chlorite phyllite. Strongly foliated ↳ Ca + Fe Oxid.							
12.5-21.3				STRONG fol seric schist + Fe tuffaceous mafic volcaniclastics - TR R along strike mod ↳ Strongly Oxid - Fe Oxidized - Bands is gray ↳ greenish gray brown							
12.5-22.4				STRONG Broken + mod Fe Oxid							
21-28.8				STRONG foliation - Phyllitic along the foliation locally possible coarse lapilli (or sherd) lenses (23-24m)							

DHCS

ARSC

ARSC

RHFS

RHFS

*semi-massive
Amorph. Pyrites*

LS

LS

LS

LS



RHAL

DEP	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
			30	ADTF (cont.)							
70				70.3-70.6 CO ₂ vns + masses along & across the foliation - SW-enclinal pyrite masses - + chlo + Ser							
72			31								
73				73.3 CO ₂ vns + masses along & across the foliation - Strongly Pitted							
74				74.7-74.8 1-2cm py masses across the foliation							
75			32	75.3-82.3 Decreasing Rk Arillite Component							
76				→ increasing fine gr. volcanoclastic component							
77				Locally in this section folia are strongly phyllitic							
78			33								
79				Serpentine alteration is increasing & increasing volcanoclastic							
80				thin black discontinuous folia = py							
81			34								
82				RHAL							
83				82.3-84.5 Large 2cm py masses in vns across the foliation - mod. Ser. alt							
84				gray to drk gray elongate siliceous bands (probable Lepelle fragments) making up siliceous layers + brown green matrix the strong folia							
85											
86											
87											
88			35								
89				PEP under the TFI becoming local siliceous							
90				TFI							
91			36	90.5-92 Banded green & thin banded brown well foliated mafic tuff							
92											

ARTF

ARTF

RHAL

TFI

DE (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				TFI [unclear]							
				30-36 Brown [unclear] Ser/Coz [unclear] Bands							
				96-101 RHST 2nd [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] - 10° from main folia							
				Fig. - Aphanitic green Siliceous Bands = partings (local Bands) of grey green folia = somewhat phyllitic							
				TR P1 Gradational [unclear] [unclear] lower tuffaceous unit ARTF							
				101-116 Variable amounts of grey wisp/ Fig. v. micaceous versus Black well foliated Argillite [unclear] [unclear] [unclear] on Folio							
				106-110 wk-mod [unclear] [unclear]							
				113 Grey green - dark grey aphanitic Siliceous (Rhyolite) Tuffaceous Horizon (107-108)							
				119 119-120 wk-moderate Ser? chl [unclear] [unclear] bright green [unclear] (Fuchsite/Barium Mn)							
				121 121-122 Assimilative [unclear] [unclear] Tuffaceous Band [unclear] [unclear] argillite + weak [unclear] content [unclear] locally [unclear] component [unclear] prominent							
				128 [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] unit (ARW)							

TFI

RHST

ARTF

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
115-115.5				Black Carbonaceous Argillite ARCB (cont)							
115.5-116				Thinly Banded Black argillite = py							
116-116.5				Lower bands may be well stretched grains = primary Silica humors							
116.5-117											
117-117.5											
117.5-118				Qtz in mass + Ser+Chi alteration halo							
118-118.5				GENERATIONS of ARWK							
118.5-119				ARWK (Argillite/Wacke)							
119-119.5				Argillite + wackes begin to predominate over black Argillite							
119.5-120				Argillite Bands contain variously elongated grains/fragments							
120-120.5				Locally phreatic on foliation surface							
120.5-121											
121-121.5				GRANES down into sequence in rock siliceous tuffaceous claystone							
121.5-122											
122-122.5				ARTF (Tuffaceous Argillite)							
122.5-123				Thin - wacke / list - Ar + TF microlites abundant							
123-123.5				kink fold							
123.5-124											
124-124.5				P. v. v. cut across the foliation obtusely							
124.5-125											
125-125.5				- CO2 v. v. parallel to P. v. v. v. cutting the foliation							
125.5-126											
126-126.5				Qtz - CO2 mass - CO2 cut Qtz							
126.5-127				ARCB (Black Carbonaceous Argillite)							
127-127.5				Black Argillite has thin grey silty stringy. Possibly elongated fragments/clasts							
127.5-128											
128-128.5											
128.5-129											
129-129.5											
129.5-130											
130-130.5											
130.5-131											
131-131.5											
131.5-132				1606-1614 Qtz + CO2 masses - Broken + Precedent w CO2 masses							

DEP	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
11.5-131.5				ARWK (Aegirite/Wacke)							
116.5				X-cutting calc mass							
117.3-118.5				Qtz + plg mass along + across foliation							
118.7-119.2				Qtz + plg mass + chl							
120			*	Kinn Gide = Foliation across conductor Ser + chl alt probably assoc w Qtz veins							
121.3-122				Qtz + plg + chl mass along + across w foliation - Qtz masses along							
122.7-122.8				Qtz + plg + chl mass along + across in foliation							
124.5				Qtz + Chlorite mass Pl masses in Frx cutting mass							
125.2-125.6				Qtz + Chlorite + masses of chl nod → S-Ring CO ₂ alteration							
127				Wacke = Arc + volcanic glass one grad to depth in predomantly carbonaceous Argillite							
130.9				Qtz + chl + chl mass							
131.5-145.4				Black Carbonaceous Argillite (ARCB)							
132.3-135.3				Scattered Qtz + Chlorite masses along + across the foliation							
133-133.5				Arg brecciated Qtz-chl mass							
134				Qtz + chl mass along foliation - a nod area alt at contact with mass of Qtz + chl mass Carbonaceous Argillite							
136				- Pl veins cutting S' foliation - U-shaped mass of Ser disc nod at junction the folia							

ARWK

ARWK

ARCB

ARCB

DEP. (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
162				ARCB / Black Carbonaceous Argillite							
163				162-163: Strongly Brown (iron oxide)							
164				- Some iron							
165				- Sections in masses							
166				- iron oxide							
167				Minor Sericite Alteration occurs locally							
168				in depth - wacke / claystone cover							
169				is increasing							
170				ARWK (Argillite/Wacke)							
171				unit of predominantly fine gr							
172				wacke / silty clay + lesser Black Argillite							
173				Locally thin green shaly part							
174				in bed							
175				- iron Al is variable in							
176				valued iron = fine cutting							
177				colored a high % common							
178				ARWK							
179				178.1-178.7 Qtz + CO ₂ = chl mass							
180				Disse py							
181				- green blk chert Banded							
182				- probably both a metal fragment							
183				+ streaked druse mass							
184				in iron oxide in Argillite							
185				183.5							
186				183.2-183.6 Sericite wacke / claystone							
187				in iron alteration							
188				183.5							
189				183.5							
190				183.5							

ARCB

ARWK

See core log

DEPT	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
387.9-400.9				RNAR - Bk Argillite with gtz rich bands (var?) + Aph. (cherty bands (kly. T. etc?)) - Qtz, Py + Qtz + Py inlets cutting Foliation - Thin Py bands along the Foliation - Fg. Diss Py w Argillite								
396-397				Predominantly STAG - Possible STELs								
397				Fe- CO_2 assoc. w Py veins Brittle gtz + Chl veins across + along the Foliation - Siliceous bands grade out into Pred. Bk Argillite								
400.9-405.5				RHFS Strong chl + sericite alt assoc w Aph Siliceous unit								
402.7-403.1				Qtz + Chl mass w scattered Py masses - Core is very broken - Moderately well foliated								
405.5-418.2				Rhat - Mod chl alteration along fractures cutting the Foliation - Argillite content varies w unit from 0-20% - Lepid. are scattered + gtz. Feldspar - Sericite is minor forming Pyrite is diss + marked along Foliation w st. Feldsparic bands								
411.6-413.6				STAG - possible STEL increasing argillaceous component w the gouged section - minor stg var w gouge								
414.2-418.2				Rhat Qtz + CO_2 mass								

DEP	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
36				190.1-196.4 ARWK (Argillite / wacke) ← 1% disc py + f. masses small disc. in matrix							
37				187.5-189.6 mod-Siliceous wacke + lesser arg alt							
38											
39											
40											
41											
42				190.5 Fault Zone along the alteration - STFL							
43				190.7 kink fold							
44											
45											
46				195 41cm Parasitic Goids - Dis. sm. here Qtz/CO ₂ vns							
47				196 ASS. m. f. no							
48				196.4-201.6 ARGT (Black Argillite w. Rhysolite/Lapilli) Thin bedded Arg + silt/wacke w scattered volcanic fragments. These are locally ragged edged.							
49				198.5 DOUBLE PLUNGING FOLD?							
50											
51				200.9 STGG - STFL = chl/Ser Alteration							
52											
53				201.6-206.3 ARGT Interbedded Black Argillite + GREEN Tuff. Mixed fig. mafic - int Tuff 1cm to 2.6m in length + Argillite							
54											
55											
56											
57				206.3-210.8 RHAR (Interbedded Rhysolite/Argillite) Lenses of Fe-mn oxide, hematite and siliceous volcanics/tephroclastics + lesser Argillite lenses							
58											
59											


DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
206.3-210.8		RHAR (Interbedded Rhyolite/Argillite)		Wk to moderate alteration in the S. zone							
210.8-210.8				CO ₂ = R. inlets cut foliation at high to mod X's							
210.8-220.6		ADTI (Auriferous Tuff)		Increasing bands of green to black intermediate tuff							
213-215m				Qtz-CO ₂ MASS - vms across the fol. well foliated Pea Green Eg. Tuff							
215-220.6				Thin disc by bands occur along the foliation. Some of these are oxidized							
220.6-220.6				Possible TiO ₂ Spotted unit (Kuroxene)							
220.6-220.6				Argillite bands increasing near contact							
220.6-220.6				EG - 220.5-220.6 is fluted in Qtz. CO ₂ Rhyolite masses							
220.6-230.2		ATGT (Interlayered Green Tuff/Arg/Felsic Volc)		Eg. Red Tuff fluted = Eg. grey with black + minor Black Argillite							
220.6-225				Quartzizing the foliation + CO ₂ CO ₂ = R. inlets in cell cut folia at high X's							
225				CO ₂ vms = cubes of black oxidized R.							
225-230.2				The older more felsic bands are found in local zones. CO ₂ altered. Some of these bands are separated by argillite.							
229.9-230				Qtz-CO ₂ MASS across the folia based on 14 at 224?							
230.5 *				Thin tight chlorite foldings							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
233				2206-2352 ATGT 233-237 Lower cleft is gradational over 4 meters a lessening bands of green tuffs Variable Carbonatic Alteration in green tuff + felsic bands							
234				235.2-243.7 RHT (Rhyolite Tuff) * @ 236 SHEAR Texture \swarrow 170°							
235				236.5-242.0 mass This unit is probably strongly sheared RHER - which is what this unit grades naturally into							
236				238.5-238.6 Qtz + (O ₂ mass) Qtz + (O ₂ mass) Lumpy fold at the lower cleft							
237				239.8 Qtz + (O ₂ mass) Qtz + (O ₂ mass) along + across the foliation							
238				240-240.6 STRONG BROWN Silica later bands of lenses are ink to red carbonate (alt?) + variable silica							
239				TR as p1 minor p1 in 2-cutting con vms							
240				TR p1 at edge of CO ₂ + Sil lenses bands							
241				243.7-247.8 RHER (Rhyolite Fragmental) - Variable Sheared Lapilli Fragmental in an Argillite Matrix - Fragment variable Siliceous - Shear zone of lenses + bands							
242				TR Diss copy - cte along the foliation							
243				247.8-249.7 ADIT green unit tuff - Bk spotting (leucocene?) Bk rhyolite in CO ₂ mass - Filled Lower cleft is gradational RHAT							
244				249.7-251 RHAT							
245				STFL -							
246				251-264.3 STGG - Gouge of RHAT locally where more siliceous Core is un-gauged							
247				253-254 - more siliceous section in ser-chl alt + diss py							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
256				249.7-264.3 STFL (Cont.) STG6 - STRONA Gouge							
257				- Gouge is made of broken siliceous sand that have lost the Argillitic cement (competent)							
258				258.2-260.3 more competent section than the FIT zone - 5m layered RHT + Argillite							
259				Not as siliceous as previous competent section. - Py masses elongate along the foliation.							
260											
261				* - Some folia have greenish hues on them in Gouge zone. Phyllitic on folia locally							
262											
263											
264				264.3-271 RHAR							
265				Broken but competent section Decreasing Argillitic Component = Napth.							
266											
267											
268				267.2-269 Rounded surface of core Sericite on folia locally							
269											
270				Py is in masses along the Foliation							
271				271-272 RHAT							
272				- variable shearing gives fragments lensoidal to banded look							
273				- Fragments var in Sil + CO ₂							
274											
275				271-276.8 Strongly broken to gouge zone locally core was well ground							
276											
277											
278				277.4-281 Broken to Gouged zone							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
279				271-292 RHAT (cont.) Small elongated fragments/ bands give core a laminated appearance locally							
280											
281			RHAT	- Ser + chl <1% is ubiquitous an is <1% py - diss + - always folia							
282				STFL							
283				282.9-292 Strongly Broken + gouge zone Core was ground + much was lost.							
284				- The Broken/gouge zone is Fault + Fracture Related -							
285				- The whole zone is Fault +/or Fracture related							
286											
287				STILL Appears to be RHAT							
288			STFL								
289											
290											
291				Abundant Gouge at Cctct is RH+1							
292				292-320 RH+1							
293				Med - strong Ser + locally altered Rhyolite -/ felsic tuff.							
294											
295			RH+1								
296				296.3-301 variably gouged + Broken zone - probably fault associated							
297											
298											
299			RH+1 STFL								
300											
301											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
302				RHH1 (cont.)							
303				STGZ - Gouge Zone							
304				Core is Blocky But competent							
305				- Mod to string Ser+chl Alteration throughout unit							
				bands of Argillite are near through most of the unit							
				Ser alt assoc = Calc							
				portion of unit - decreases							
				→ increasing Argillite component							
				Py = 6% disc w. well folia Ser-mica partings							
				Localy occurs in veins cutting the foliation							
				312-320							
				312-320							
				Predominantly Blocky + gouge zone (STFL?)							
				Argillite gradually increases in depth - locally siliceous bands are discontinuous + all residual (stretched fragments)							
				317 *							
				Tightly folded veinlet across the core axis							
				- Possibly wrapping a disc Calc							
				lens							
				320-324							
				RHAR							
				Interlayered - Argillite + Siliceous lenses/Bands							
				- Py in flattened masses along the folia + vns							
				"win" the Siliceous lenses + vns Fris cutting the folia							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
324-332				RHFR							
325				Are gradationally decreases L// folio consists of ser partings							
326				Trace chalcopyrite along folia							
322				<1% Pyrite along folia							
328				Felsic fragments in variably stretched fragments elongated along the foliation -							
329											
330				TR cpy Siliceous fragments are well to locally well Serpentinized altered							
331											
332				330.5-333 CHL+ser matrix supporting fragments							
332											
333				332.7-334.2 CHL+ser matrix supporting fragments							
334											
335				TR Dis P. issue in strong isolated bands							
336											
332				336.2-337 increasing Ang. little content grading in							
338				337-342 ARR H							
338				338. * Shear indicator 							
339				339-340.6- STRONG BLENK + GENE ZONE POSSIBLE FIT							
340											
341											
342				341.2-341.5 Prim. Siliceous Volcaniclastics or large elongate fragments							
343				Pt masses along the foliation as vales in brittle							
344				343-344 Fractures cutting the dominant foliation at 70°							
345											
346				346.2 X ASS-Im fold in the dominant foliation Axial Planar							

RHFR

ARR H

ARR H

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
ARRH				Diss Magnetites increasing toward EXCM							
342				346.7-351.4 EXCM							
348				mod to strong chl + Ser alteration above w MT + CO ₂ unit							
344				MT is diss + occurs as disc bands w w carbonate + Silica							
350				matrix							
351				350-351 - strongly foliated + gte v. red - gradational into lower unit.							
352				351.5-360.3 RHFS							
353				chly to mod foliated to massive aphanitic felsic rock - probably siliceous tuff - possible cherty horizon -							
354											
355				- An to subhedral masses of Pyrite along the foliation							
356				Py also occurs in fractures across the foliation							
357				Locally wk Sericite alteration							
358											
359				Sharp contact w lower Fe Formation							
360				360.3-365.3 EXMP							
361				Diss to Banded Magnetite Fe Fm. - Mod. strong chl alt. - Pyrite masses scattered through Fm - locally siliceous matrix							
362				362.3 → Dark Red Hematite/Isoperoidal Bands w diss Pyrite (1-5%)							
363				- Matrix is mod to strongly siliceous + w to mod chlorite							
364				- Carbonate variable - TR to strong							
365				grades into v. siliceous aphanitic cherty tuffaceous appearing unit							
366				365.3-367.6 RHFS							
367				- upper + lower cherty are gradational - possible s.c. sphal in thin bands - Pyrite elongate masses along the fol.							
368				* Exhalitive Silica *							
369				367.8-368.7 EXMP							
370				368.7-372.2 RHFS							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368.7-372.2				RHFS							
370				368.2-377 * Abundant Ground + Lost Core							
371				Graded into Tuffaceous Argillite							
372				1.5% diss Pyrite increasing well foliated Arg.							
372.2-375.5				ARTF							
373				Tuffaceous Beds are interlayered w/ Aphanitic felsite (Chert).							
374				- mod. Sarcinite alteration							
375				STFL							
375.5-377				STGA - Gouge Possible STFL							
376				Broken + Ground Core							
377				RHFS							
377.1-377.2				Macrolite in fine and Rubble Zone							
377-382.9				- Ground + Lost Core							
379				Aphanitic Cherty Rock w/ Chl + Ser partings w/ mod. of the Rubble							
380											
381				+ trace Diss Pyrite							
382				Greenish Red mottled Reddish local in RHFS Rubble							
383											
384											
385											
386											
387				Contact appears gradual in Lower Argillite							
387.9-400.9				QHAR							
388				Streak with foliated Sarcinite (Silica + Sarcinite) Argillite							
389											
390				Pyrite + Sarcinite (30%) along foliation + Sarcinite Sarcinite							
391				Local Sarcinite + Pyrite							
392				- trace of the RHFS section							

RHFS

ARTF

STFL

RHFS (CHLE)

QHAR

55

50

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
416				405-418.2 Rhat - Well foliated to variably elongated Siliceous Lepilli							
417											
418				418.2-419.1 Rhat - Sericite in trace to weak along the folia Stage in fractured streamings							
419				419.1-420 ARTF							
420				Tuffaceous Argillite - locally							
421				419.7-419.8 coarse Siliceous Breccia/Bands () 420-421.8 Sericite + chl altered RHF5							
422				421.8-422 ARTF							
423				Tuffaceous Argillite 423 * Chevron folding of foliation							
424				423.7-424.3 Qtz mass + chl - Chlorite occurs locally along the folia							
425				- To 426 meters unit becomes less tuffaceous + more Argillitic							
426				426-428. Unit becoming more siliceous + less Argillitic - locally Silica is amorphous - Aph Silica bands increase + grade into RHF5							
427											
428				428-443 RHAR							
429				Siliceous Bands up to 10cm interbedded in thin argillaceous bands (5%)							
430											
431				Argillite Bands - ones locally Chlorite + Sericite							
432				TRACE OFSS Pyrite							
433				Locally Bands appear discontinuous + may be conical fragments							
434				434.9-435.0 Tuffaceous argillite interval							
435				ON Fractures cutting folia is mod. to chl alteration							
436											
437											
438											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	1512	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
						A	B	C	D	E		
					428-443 RHAZ							
					upper & lower contacts are gradational to Argillite & shales							
					443-449.5 ARSI							
					- Contacts are gradational - Pyrite occurs as discontinuous masses along the foliation - Pyrite inlets occur in fractures across the foliation							
					- Aphanitic siliceous bands increase toward lower contact							
					446-448.5 - core is strongly broken & locally gouged							
					449.5-460.8 RHFS							
					Moderately calcified locally laminar massive - Ti - scattered lapilli are elongated along the foliation							
453					- Sericite + chl form along the folia							
454					- 452.5 coarse tuffaceous fragment + dark gray, lam. wide (possible flattened lapilli) Aph felsite							
455					-							
456												
457					locally calcareous tuffaceous bands in predominantly aphanitic siliceous unit							
458												
459					diss pyrite in fol. detrit bands up to 3% at 458							
460					459.0 Qtz + Cos in along foliation							
461					460.8-461 massive Magnetite w/ diss py + sericite as in Jasper Sharp chert = RHFS							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
462				461.0-461.5 RHFS							
463				461.6-462.3 - more granular tuffaceous looking section - calcareous in mod. finely disse pyrite							
464				in sharp ctet w RHFS							
465				464.5-465.5 ARTF IN SHARP upper & lower ctet w RHFS - STRONGLY Shearred + Calcareous							
466				465-464.61 RHFS							
467				Predominantly Aphanitic siliceous Rock. Locally tuffaceous(?) calcareous horizons in sharp ctet.							
468											
469											
470											
471				Minor sericite develops in folia							
472				Tuffaceous calcareous band at 467.2-467.4							
473											
474				474.1-474.5 RHAR (Banded Rhyolite/Arg)							
475				Gradational upper contact with RHFS							
476				Section is layer stripped grey Arto-feldspathic bands + CO ₂ + CO ₂ bands alternating in lesser thin Argillite Bands - Black							
477				477.5-477.7 RHFS							
478				MASSIVE to mod well foliated Aphanitic Siliceous Rock (Rhyolite)							
479				479.2 Carbonate Altered Lens							
480				480.4-480.7 Q + r + CO ₂ mass - Remnants of rhyolite							
481				481 Lens of Carbonate Alteration - 482.5 - Fm filling massive by m/cm disc							
482				482.5 - Fm filling massive by m/cm disc lighter grey coarse foliated Aph. felsite is scattered by mass along folia, faded, fine spots - maybe glass phenocrysts?							
483											
484											

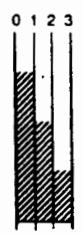
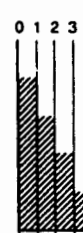
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				504.9-509.1 SSMS							
506.0				505.2-506.3 increasing sph bands below to py + Py where altered to sph) Sph 0.2 to 4cm. Cpy occurs as fine stringers + remains gangue masses (2%) - wk to locally strongly magnetic							
506.5				506.3-506.8: v.f.g. Pyrite. Also Arg or Pyrite Mass. Py							
507.0				506.8-507.2: v. G. Pabls/Brown (Py) w/ slightly coarser Py matrix - minor Cpy in the less fine matrix - dark brownish red sphalerite occur							
507.5				507.2-507.6: interstitial to the less fine matrix - Sphalerite Rich -							
508.0				507.6-508.3: slightly coarser than fine matrix (No Pabls + reduce local Cpy stringers. Sph occurs as abundant fine disseminations + as bands (5cm)							
508.5				Sph Rich + Cpy interstitial - wk to locally strongly magnetic							
509.0				508.3-508.6: Cpy + Po rich - No co string mag. chl from matrix							
509.5				508.6-509.1: Same texture. Sph stringer along Galn lenticle cut by cpy stringer - dark chl fragments scattered w/ chlorite matrix - Pyrite + minor to red band (Coz gangue)							
510				509.1-510.4: ^{Elongate} PNC - ^{Elongate} Coz field lenticle - wk to AH to Coz w/ chlorite matrix - Cpy stringers scattered w/ sph stringer locally magnetic							
511				510.4-513.4: RPST. Chlorite hydroxide Tuff strongly foliated w/ fine streaks - Chlorite fragments variably altered to Coz. locally contains lenticle. Grey pale green striped							
512											
513											
513.4				513.4: Bottom							

WV96 - 35				Sperry-Sun	Grid	True
Survey Type	Depth (ft.)	Depth (m)	Inclination	Azimuth	Azimuth	Azimuth
Collar			-60			
Sperry-Sun	70	21.3	-61.5	2	359	34
Sperry-Sun	150	45.7	-65	4	1	36
Sperry-Sun	207	63.1	-66	4	1	36
Sperry-Sun	307	93.6	-69	7	4	39
Sperry-Sun	407	124.1	-70	10	7	42
Sperry-Sun	507	154.5	-71	14	11	46
Sperry-Sun	607	185.0	-72	12	9	44
Sperry-Sun	737	224.6	-74	12	9	44
Sperry-Sun	827	252.1	-74	16	13	48
Sperry-Sun	917	279.5	-75	19	16	51
Sperry-Sun	1007	306.9	-75	18	15	50
Sperry-Sun	1207	367.9	-78	12	9	44
Sperry-Sun	1384	421.8	-82	blurred, not legible		
Sperry-Sun	1484	452.3	-82	20	17	52
Sperry-Sun	1584	482.8	-83	340	337	372
Sperry-Sun	1684	513.3	-83.5	15	12	47

Andrew's Readings						
WV96 - 35				Sperry-Sun	Grid	True
Survey Type	Depth (ft.)	Depth (m)	Inclination	Azimuth	Azimuth	Azimuth
Collar	0	0.0	-60		0	
Sperry-Sun	70	21.3	-61	1	358	33
Sperry-Sun	150	45.7	-64.5	3	0	35
Sperry-Sun	207	63.1	-66	4	1	36
Sperry-Sun	307	93.6	-69	6	3	38
Sperry-Sun	407	124.1	-69.5	10	7	42
Sperry-Sun	507	154.5	-71	13	10	45
Sperry-Sun	607	185.0	-72	11	8	43
Sperry-Sun	737	224.6	-73	12	9	44
Sperry-Sun	827	252.1	-74	16	13	48
Sperry-Sun	917	279.5	-74.5	18	15	50
Sperry-Sun	1007	308.9	-75.5	16	13	48
Sperry-Sun	1207	367.9	-77.5	12	9	44
Sperry-Sun	1384	421.8	-80.5	10	7	42
Sperry-Sun	1484	452.3	-81.5	22	19	54
Sperry-Sun	1584	482.8	-82.5	344	341	16
Sperry-Sun	1684	513.3	-83.5	16	13	38

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverine Lake	GROUND ELEV. 1504.9
HOLE NO. WU96-36	BEARING 355° (GRID)
LOCATION 16609.5E 17063.0N	DIP -80°
	TOTAL LENGTH 469.4
LOGGED BY John Breedlove	HORIZONTAL PROJECT
DATE June 23 - July 10, 1996	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE 
CORE SIZE HQ to 46.3m, NQ to 469.4	
DATE STARTED June 23, 1996	TOTAL SULPHIDE SCALE 
DATE COMPLETED July 10, 1996	
DIP TESTS	
COMMENTS massive sulfide intercept 411.5 - 415.6	LEGEND

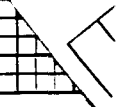
DEPTH (m)	VNI NO.	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					PYRITE	AL
					SER	CHL	CO ₃	SIL	E		
0-3m				DHCS Casings							
3-18.9				ARSE Grey-green to black phyllitic argillite - very well foliated Py is common in masses flattened along the foliation Quartz + pyrite cut the strong foliation Wk to mod FeOx along & across the foliation Blk bands contain elongate lenses of CO ₃ + Sil (argons / fragments) Grey phyllitic bands contain mod. Sericite - locally Ser is STRONG Py is locally trace in the massive argillite bands along the foliation at 18.9m - crenulations on the foliation Carbonaceous Argillite increasing gradationally towards the more phyllitic grey horizons							
18.9-22.5				ARRT Variable elongate CO ₃ + Sil lenses supported by a Carbonaceous Argillitic matrix - phyllitic foliation locally							
22.2				CRENULATIONS along the foliation							
22.5-35.9				RHAP							

DHCS

ARRT

ARRT

PHASE



Handwritten notes: "Handwritten notes" (vertical)

DEPTH (m)	CODE	UNIT	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					PYRITE	SPHAL.	CP-1641P
						Ser	chl	CO3	D	E			
41.8-58.0					RHAR (Cont.)								
42					48.5 CO ₂ + Qtz MASS - intruding across Colia on eschelon = inlets								
48					48.4-49.1 * EW eschelon CO ₂ inlets Cutting the Colia - there are slightly offset by movement along the Colia								
49													
50													
51					51-52.5 Broken + lost core								
52													
53					Pyrite occurring in unit as flattened elongate masses along the foliation + diss in w Bands < 10% Py								
54													
55													
56					Increasing argillite component gradually to depth								
57					58.0-59.5 ARCB								
58					Scattered Sil + CO ₂ elongate frags/Bands								
59					57.4-57.6 Qtz + Chl + CO ₂								
60					Operational cut into ARSI								
61					59.5-63 RHAR								
62					Increasing Follic Bands = depth + decreasing Argillite content								
63					61.8-61.9 Qtz + CO ₂ + Chl along the folia Chl assoc = CO ₂ - TR Py								
64					63-66.4 ARSI								
65					63-63.9 STG-G - Fault Gouge								
66					1-2% Py along folia + in fractures cutting the folia.								
67					V. Thin light Bands - Pseudo Lamination ↑ Sheared.								
68					66.4-91.6 RHAI								
69					Increasing Silica Bands + decreasing Argillite Bands - w/ir - Mod Ser + Chl assoc. = increase Siliceous nature of unit.								
70													

RHAR

ARCB

RHAR

ARSI

RHAI

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sph	SHPH	CAI 164
					Ser	Chl	CO ₃	Sil	E			
66.4-91.6				RHT								
70				where predominantly Siliceous Ser+chl partings - minor to no Argillite								
71												
72				71.6-73.6 - STRONG Ser+chl alteration								
73												
74				Mod to locally strong ser+chl alt.								
75				Siliceous unit is Aphonitic grey to lt green - to green tint								
76												
77												
78-79				Banded brown-green Siliceous Bands w Ser partings								
80												
81				Locally thin dark grey Argillitic Bands that have a phyllitic appearance - d.s.s. Py commonly assoc. w argillite bands								
82												
83												
84				Unit is very competent - well foliated along Ser partings								
85				x-cutting Coe vns locally - minor x-cutting Py masses (x-cutting fol)								
86												
87												
88												
89												
90												
91.5-92.0				Increasing argillite content to depth grades into Predominantly argillite unit								
91.6-96.3				RHAP								

RHT

RHT

RHT

DEPTH (m)	Code	VMS/VEG	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					P/10%	SP/10%	CH/12/10%				
						SBR	CH	CO ₃	SIL	E							
185				50	179.8-212 RHFZ unit is w/ky to med magnetic due to Pyrrhotite diss in Argillaceous matrix												
186					186.2 * Shear Fabric XXXXXXXXXX												
187					wk to med. CO ₃ alteration of fragments												
188				60													
189																	
190					189.7-190 Aud. Tuff Band.												
191				60	thin disc Py Bands Anastomosing the folia - also cutting fragments where penetrated by the folia												
192																	
193					190.9 Py violet cutting folia + fragments at ↑ * along the core axis												
194				62													
195					Continued clast supported felsic fragmental host - Pyrrhotite in veins along the folia - Pyrite less common overall than Pyrrhotite												
196				60	fragments are predominantly ateo-gold sparitic - some frags are pitted = CO ₃ - possibly CO ₂ altering												
197					Goldspers in the mostly siliceous fragment												
198																	
199																	
200					Py violet common in fracture cutting the folia at high angles												
201				65													
202					201.3 * XXXXXXXXXX 200.3-202.5 STG - Possible FET zone												
203																	
204				65	wk Ser alteration assoc. in the ateo-gold sparitic fragments												
205																	
206																	
207																	

RHFZ

RHFZ

RHFZ

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRONTIER	Strat.
					SER	CHL	CO3	SIL	E		
231	ARRT			239-233.8 ARRT CONT Grey to Black siliceous argillaceous Sediments - variably flattened / elongated Qtz-feld/CO3 fragments							
232											
233											
234	DHLC			233.8-242.9 DHLC Possible Fault/Gouge Zone							
235											
236											
237											
238											
239											
240	RNAT			242.9-249.1 RNAT - Fragment Supported Qtz-feldspathic Fragmental - fr. Argillaceous-tuffaceous matrix is up to 50% Locally - mod to STRONG Sericite Alteration of the felsic fragments or locally - the matrix when tuffaceous							
241											
242											
243	RNAT			247-248.6 Matrix supported fragmental intercal.							
244				248.8 - 249.3 ILP							
245	RNAT			249.3-250.3 mod oxidation + resultant Pinky texture of Qtz-feldspathic fragments							
246											
247											
248	RNAT			253-258 Ground + Lost Core STRONG Sericite Alteration							
249											
250											
251											
252											
253											

DEPTH (m)	CODE	MINING	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					PYRITE	SPHAL	CAP/10
						SER	CHL	CO3	DSL	E			
254					242.9-249.1 RHAT 250-255 Mod to green Serchil alt 253.2-258.5 Ground + broken CORB								
255					Disc Sulfide mineralization occure as pin disc in matrix + locally as thin disc bands along the folia - also in vales at high x to the dominant foliation.								
256													
257													
258													
259													
260													
261													
262													
263													
264													
265													
266													
267													
268													
269													
270													
271													
272													
273													
274													
275													
276													

RHAT

ALRT

RHFS

60

61

64

65

63

65

242.9-249.1

250-255

253.2-258.5

263.6

268.9-269.4

269.4-274

274-275

275-281

RHAT

Mod to green Serchil alt

Ground + broken CORB

Disc Sulfide mineralization

occure as pin disc in matrix +

locally as thin disc bands along

the folia - also in vales at high

x to the dominant foliation.

Pyrrhotite is disseminated (with Magnetite)

Trace magnetite and chlorite

Trace magnetite and chlorite

Trace magnetite and chlorite

Trace magnetite and chlorite

Trace magnetite and chlorite

Trace magnetite and chlorite

Pyrrhotite + magnetite at high angle

to the foliation

Not uncommon in fragments

is an acute fabric to

the main foliation

Qtz + Chl mass - STFI

ALRT

Argillaceous matrix supported-

flattened lenticular appearing

lupilli

Trace magnetite and chlorite (Cherty)

grading into in RHFS horizon

RHFS

Cherty / Serchil Cherty

Horizon grading into in RHFS

EXMP

DEPTH (m)	VMSG-	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	Sphal	CP-100/100
					Py	Chl	CO ₃	Sil	E			
275-281				EXMP Banded w/ massive Magnetite Fe Fm Banded w/ Chlorite + diss magnetite lenses + w/ Silica + chl + diss magnetite horizons - Possible diss Fe sphal in Magnetite bands								
279.1-279.2				Qtz schl mass								
281-290				RHFS Thin bands of Py common as is Diss Py - Resist cubic masses								
283.9-284.0				Qtz schl mass across the foliation								
290-294.8				EXMP Quick gradational contact w/ RHFS Fe Fm is v. siliceous - - At 290.5 meters is softer consistent of CO ₃								
294.8-299.0				DHLC NORO No Chyl No Nada - Runs								

EXMP

RHFS

EXMP

DHLC



32

39

46

50

DEPTH (m)	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Rutile	Sphal	CP/BU/RO
				A	B	C	D	E			
299-299.2			S&MP								
299.2-301			RHFS								
301-304.3			STGG = Qtz + CO ₂ veining Possible STFL								
304.3-313			ARMS Predominantly Argillite w Silty tuffaceous Bands - Thin Py Bands occur along fol - Py occurs as inlets & masses where Arg. has been Fractures giving a Breccia texture - Silty component grades out w depth - FeCO ₃ often assoc. w py veining								
306*			at 306m - Folded Qtz Carb Va								
			matrix contains Mod. Carbonate at 306m								
313-319.1			ARTF At 313m core became strongly ground. - From chips: Grades from tuffaceous Arg. to inter banded Argillite + Siliceous (i.e. Tuff (Rhyolite))								
319.1-318.5			N/LC								

RHFS

STFL

ARMS

ARTF

N/LC

DEPTH (m)	CODE	UNIFORMITY	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION				
						SSR	chl	CO ₂	SIL	F
392	ARSI				396.2-392.5 ARSI					
393	ARSI				392.3-392.4 Qtz + CO ₂ = chl mass					
394	ARSI				392.5-393.8 Calcareous Tuff horizon (ARSC) w/ Siliceous Argillite					
395	ARSI				393.8-395 RHFS					
396	ARSI				395-396 Argillite becoming increasingly siliceous + variably calcareous ARSC					
397	ARSI				396-401.5 Calcareous Tuff (Possibly exhalative ARSI)					
398	ARSI				Dark grey to black Argillite that is locally aphanitic + siliceous (Contemporaneous deposition w/ Argillite)					
399	ARSI				Thin grey Qtz. Feldspathic ± CO ₂ pm striping is common					
400	ARSI				- 1-2% diss py + thin bimodal folia					
401	ARSI				- CO ₂ alteration is variable locally in blk argillite but mostly in sh in the quartzite					
402	ARSI				401.5-411.5 Thin pm striped Bands to CO ₂ ARCB					
403	ARSI				Black well foliated carbonaceous Argillite - w decreasing thin Bands of Qtz-feldspathic ± CO ₂ material - P ₁ is increasing in % w depth					
404	ARSI									
405	ARSI									
406	ARSI				- Section is sheared as detailed by Shear Boundary / ASS in Quartz (410.5)					
407	ARCB				406.5-407 need to study CO ₂ alteration - quartzite disc. bands w Argillite - w thin sm layers					
408	ARCB				408.7-409 broken some zone w competent pieces heavy fractured texture w CO ₂ ± sil matrix					
409	ARCB				409.7-409.9 Tuffaceous CO ₂ Alt. Horizon (Band)					
410	ARCB				410.3-410.6 Thin Argillite Bouda Bands w CO ₂ matrix + diss P ₁ - 1-2cm Bands of P ₁ w CO ₂ matrix increasing					
411	SSMS				411.5-411.5 411.5-411.7 Dark siliceous gangue sm. mottled appearance - w Bouda of Sph-10% w					
412	SSMS				411.7-412.5 N.G. Quartz w bands of interstitial reddish brown 0.5-20cm P ₁ grain size gradually increasing. Bouda of Sph. mod. Abund. coarse fault shear. Sph. phase texture					
413	SSMS				412.5-413					

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Ag	As	Cu	Pb	Zn
MASSIVE Sulfide		412	413	0.2	105060	1030	158	57	58	12.4
MASSIVE Sulfide		413	413.9	0.9	105065	2400	224	42	2.06	11.4
MASSIVE Sulfide		413.9	414.4	0.8	105066	1650	112	41	5	11.1
MASSIVE Sulfide		414.4	414.8	0.3	105067	620	112	29	0.32	10.4
Fine MASSIVE Sulfide		414.8	415.6	0.8	105068	210	42	57	1.01	4.91
Fine Chlorite Arsenic Sulfide		415.6	416	1.1	105069					
Fine Chlorite Arsenic Sulfide		416	417.3	1.3	105070					
Fine chlorite Capill. Tuff		417.3	420	2.7	105071					
Fine chlorite Capill. Tuff		420	422.1	2.1	105072					
Sericite-Chlorite Qtz schist		422.1	423.4	1.3	105073					
Sericite Chlorite Qtz schist		423.4	424.2	0.7	105074					
Sericite chlorite Qtz schist		424.2	427.3	2.1	105075					
Serchi Qtz schist		427.3	428.1	1.2	105088					
Ser chl Qtz Schist		428.1	428.8	2.7	105089					

69
70
1024031

↑
MORE RESULTS NEEDED START HERE!!

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
Ser Qtz Schist		431.3	433.4	2.1	105076				
Ser Qtz Schist		433.4	435.2	1.8	105077				
Ser Qtz Schist		435.2	438	2.8	105078				
Ser Qtz Schist		440.3	440.3	2.3	105079				
Ser Qtz Schist		440.3	443	2.2	105080				
Ser Qtz Schist		443	445.6	2.6	105081				
Ser Qtz Schist		445.6	448.1	2.5	105082				
Ser Qtz Schist		448.1	450.5	2.4	105083				
Ser Qtz Schist		450.5	452.9	2.4	105084				
Ser Qtz Schist		452.9	454.5	1.6	105085				
Ser Qtz Schist		454.5	456.9	2.4	105086				
Ser Qtz Schist		456.9	458.2	1.3	105087				
Ser Qtz Schist		458.2	460.6	2.4	105088				
Ser Qtz Schist		460.6	462.2	1.6	105089				
Ser Qtz Schist		462.2	464.2	2.0	105090				
Ser Qtz Schist		464.2	466	1.8	105091				
Ser Qtz Schist		466	467.9	1.9	105092				
Ser Qtz Schist		467.9	469.4	1.5	105093				
Tuffaceous Argillite		469.4	471.2	1.8	105094				
Tuffaceous Argillite		471.2	473.1	1.9	105095				

DEPTH (m)	CORRECTION	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Amph	Sphal	Calc
				A	B	C	D	E			
433			433.0 - 433.5 - 433.8 Mylonite zone - thin, greenish lenses - appears to be a variably sheared felsic stuff & transposed & stretched lenses of former gneissoids								
434			434.7 Shear zone - ex-metres Qtz/Eparses augen showing "Reverse" movement.								
436			436.4 Pyritized zone foliation that has relict pyrite.								
438			438.6 Shear zone <u>TTD</u>								
439			439.4 x-Calculation using - 439.4 - 439.6 as values - Trace disc pyritized locally magnetic								
441			438-441: Green dark green strongly foliated - Saponite chlorite schist with lenses of gneissoid material								
443			443.5 - 446 Still well foliated but becoming less greenish color - decreasing chlorite content - some gneissoid material - almost completely decomposed Qtz is still present - some gneissoid material are well preserved - lensoidal zone impression of well stretched gneissoid - some gneissoid to strong to 446m								
449			449 - pyrite is finely disseminated & occurs as fine masses along the folia - 1-2%								
451			451 - Thin Qtz - carbonate veins and the foliation is well preserved in places have slipped across the zone along the main foliation								
452			452 - some gneissoid material is still present								
453			453								
454			454								

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	CP
					Sil	CH	OS	Sil	P			
457				453-456 1:1 USR								
458				Continued py-mem zone								
459				Some calc. in zone of pyromem								
460				a pale ash buff to calc. saprophytic buff								
461				Stagnant pyromem zone								
462				some calc. in zone of pyromem								
463				Some thin pale buff zone								
464				Some calc. in zone of pyromem								
465				Some calc. in zone of pyromem								
466				466-469 4 RHFF								
467				pyromem zone - grade								
468				rock - thin grades of black-brown argillite - thin								
469				shaly argillite - carbonates in part								
470				The Argillaceous horizons have more								
471				pyromem than the buffaceous								
472				horizons								

Diamond Drill Hole WV96-36

Summary of Log Intercept

411.5 - 415.6 Meters

Avg. Core Angle 61.8°

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
410.6	411.5	0.9	Hanging Wall Argillite Hanging wall argillite grades into massive sulfide mineralization. Black argillite with thin, light grey, pin-striped quartzo-feldspathic +/- carbonate bands are interlayered with increasing amounts of < 1cm semi-massive pyrite + carbonate bands. These pyrite + carbonate bands commonly pinch and swell.
411.5	411.7	0.2	Mottled Pyrite > Sphalerite Massive Sulfide Coarse siliceous gangue gives mottled appearance to fine-grained massive sulfide. Carbonate gangue is minor. Reddish brown sphalerite occurs as wispy bands and is up to 20% of the interval.
411.7	412.5	0.5	Pyrite > Sphalerite Massive Sulfide Reddish brown sphalerite occurs interstitial to fine-grained pyrite in bands of 0.5 to 2.0cm. Sphalerite is up to 40% within these bands. The grain size of pyrite increases gradually at the end of the interval in an uneven "buckshot" manner.
412.5	413.0	0.5	Sphalerite Rich Massive Sulfide Sphalerite rich bands (0.2 to 1.0cm) are up to 30% of the interval. Pyrite grain masses commonly give the interval a coarse "buckshot" texture.
(412.6	412.8	0.2)	Possible Fault: Lost core (0.2m) and a slick sericitic surface. Carbonate gangue makes up to 20% of the end of this interval giving it a mottled appearance.
413.0	413.6	0.6	Pyrite > Sphalerite Massive Sulfide Fine-grained massive pyrite with minor carbonate gangue. Thin < 1.0cm bands of sphalerite and wispy disseminated sphalerite are up to 15% of the interval. A sharp textural gradation occurs from coarse "buckshot" pyrite texture of the previous interval to this fine-grained interval.
413.6	414.5	0.9	Pyrite Rich Massive Sulfide Massive fine-grained pyrite with disseminated sphalerite and sphalerite in thin discontinuous bands along the foliation. Sphalerite is approximately 5% of the interval. Thin carbonate + quartz gangue bands occur along the foliation and locally in elongate masses giving some of the interval a mottled look.
414.5	414.8	0.3	Coarse-grained Pyrite > Sphalerite Massive Sulfide Increase in pyrite grain size giving the interval a "buckshot" texture. Interstitial carbonate gangue also increases and is almost 30% of the interval. At 414.7 a 2.0cm band of semi-massive sphalerite contains greater than 50% sphalerite.

414.8 415.6 0.8

Semi-Massive Sulfides

Less than 30% sulfides with fine-grained pyrite >>> sphalerite > chalcopyrite. Gangue mineralogy consists of carbonate > chlorite >> quartz. Chlorite is black and probably Mg rich. Chlorite masses occur in a "buckshot" texture. Moderately magnetic. Probably fine-grained magnetite occurring with the chlorite masses. .

415.6 421.2 5.6

Footwall Chlorite > Sericite Altered Lapilli Tuff

Well-foliated, fragment supported lapilli tuff. The lapilli are strongly altered to carbonate with a chlorite >> sericite matrix. Black chlorite masses are spread "buckshot" throughout the interval. Scattered chalcopyrite and chalcopyrite + pyrite stringers are 1-2% the interval. Short, thin, discontinuous sphalerite stringers are less common. Grades into matrix supported chlorite altered tuff. Locally moderately magnetic.

421.2 423.7 2.5

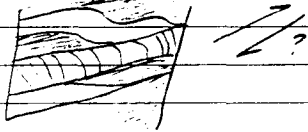
Footwall Sericite > Chlorite Altered Tuff

The interbanded sericite layers gradationally begin to predominate over the chlorite bands in this interval. Minor carbonate alters the quartz-feldspathic lapilli. Chalcopyrite stringers are rare to not present. Trace disseminated pyrite. Locally weak to moderately magnetic. Trace thin, short, discontinuous pyrrhotite bands along the foliation. (End of core up to night shift July 6, 1996)

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverhampton Regional Mill Program</i>	GROUND ELEV. <i>1675m</i>
HOLE NO. <i>WV-96-37</i>	BEARING <i>GRID SOUTH</i>
LOCATION <i>'FISHER ZONE'</i> <i>L B200 E / 1900011</i>	DIP <i>-80°</i>
	TOTAL LENGTH <i>1242 - 380.7m</i>
LOGGED BY <i>Andrew Turner</i>	HORIZONTAL PROJECT <i>166.1m</i>
DATE <i>June 27/96</i>	VERTICAL PROJECT <i>374.9m</i>
CONTRACTOR <i>F. BOISVELTIER CHATELAIN CONSULTING</i>	ALTERATION SCALE
CORE SIZE <i>NQ II / BQTW</i>	
DATE STARTED <i>June 25/96</i>	TOTAL SULPHIDE SCALE
DATE COMPLETED <i>June 30/96</i>	
DIP TESTS <i>Acid Tests -</i> <i>① 292 - 29.2m - 78' 200000000</i> <i>② 295 - 131m</i> <i>③ 299 - 250.3m</i>	
COMMENTS <i>- Watch For Gaschem in any intervals after the interval 26632 - 544 (299-2022) - WOL. HAZARD -</i> <i>- the interstratified ...</i>	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					py A	po B	spk C	chl D	carb E		
0-2.7m				CASING							
2.7-4.7m				COARSE FRAGMENTAL RHYOLITE - 75-80% 1-10cm, elongated, aphanitic, aphanitic, light grey Rhy frags with sheared sphyrolitic borders - 20-25% dark grey to greenish grey, v. fine-gr. aeg. illite matrix - strong shear fabric - 20-30° to SA							
											
				- Rhy frags are leached + oxidized. + 10% illite							
4.7-5.8m				INTERMEDIATE XL TUFF (?) - overall dark green color - fine-gr. well foliated dark green, chloritic matrix supporting ~30% 1-2mm light green to greenish grey. Feldspar phenos. - No HCl reac'n - tr. ds py (?)							
5.8-9.15m				FRAGMENTAL RHYOLITE - as above - less obvious shear indicators due to slight increase in % or size of Rhy frags, however sericite matrix well fol'd							
9.15-18.9m				BIOTITE-CARB DYKE ROCK - strongly foliated (50-70° to SA) - dark green chloritic-Biotite matrix (~40-50%) - 50-60% light green carb-alt'd Feldspars (?) - Strong HCl reac'n - Carb (Calc.L) + L atz veins ~ @ 45° to SA @ - 11.3, 14.4, 16.9 + 17.4m - to 25-30cm - gouged + strongly oxid.							

Intense weathering
 Fe + Mn, Cy str + rotten texture

Fm01

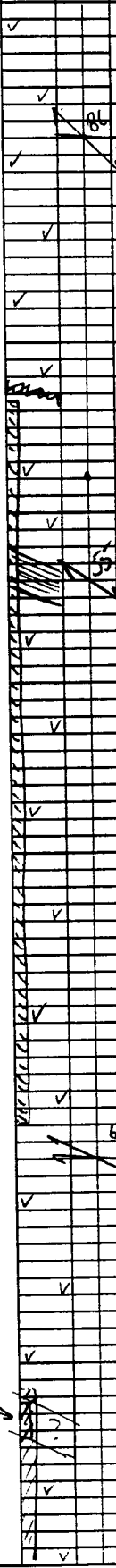
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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
23				19.15m to								
24				FRAGMENTAL APMERIC RHYOLITE								
25				- v. large thickness of fragments								
26				- this unit includes the top portion of the Free Rhy characterized by distinct Feop in a green chl/ser matrix								
27				- locally matrix supported								
28				- unit light grey to greenish grey								
29				- 70-80% 1-10cm (3-6cm avg), partially flattened, spheric, aphanitic, light grey to greenish grey Rhyolitic fragments, (sub-rounded) with minor scratch								
30				edges from shear folia								
31				- 20-30% v. fine gr. dark green to dark grey, sericitic & argillitic matrix generally as 1-5mm wispy partings.								
32				- bedz difficult to discern given fragmental nature of rock, however usually ~ 70-80° WCA								
33				- often a folia or shear fabric is developed at ~ 40-50° to c/a								
34				- tr-1% pt throughout.								
35				- Fairly intense surficial weathering								
36				of rocks between 20.4 + 21.1m + 43.65m + 44.1m producing an FeOx (1% MnO2) stained, rotten, quartz-lookling rock.								
37				- less intense Fe ox wdrng associated @ fractures & veins + fit gouge between: 28.9-39.5m, 43.5-54.0m (crushed - gouge core from 49.75m to 50.65m, 51.9-53.7m), and from 77.25-83.5m.								
38												
39												
40												
41												
42												
43												
44												
45												
46												

Shear band

Fairly intense surficial weathering @ FeOx str.

very intense weathering



PAGE		OF		PROJECT:				HOLE NO.	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		23.0	25.0	2.0	106410				
		25.0	27.0	2.0	106411				
		22.0	23.4	1.4	106412				
		23.4	23.9	0.5	106413				
		23.0	31.2	8.2	106414				
		21.2	21.75	0.55	106415				
		21.75	33.5	11.75	106416				
		33.5	35.05	1.55	106417				
		35.05	37.0	1.95	106418				
		36.0	38.0	2.0	106419				
		39.0	41.0	2.0	106420				
		41.0	43.6	2.6	106421				
		43.6	44.1	0.5	106422				
		44.1	44.75	0.65	106423				
		45.0	47.0	2.0	106424				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
46				- Unit becomes very siliceous (silicified?) with mottled appearance developed due to variable sericitic alb. of rhy. Frag producing patchy light green + white colors. (~ 55.5 - 110.0m)							
47											
48											
49											
50	crushed			- below 110.0m, unit has a slight increase in argillitic matrix. (ie more darker grey matrix), with a corresponding well develop. Frag. texture.							
51											
52	broken to crushed										
53											
54											
55											
56											
57											
58	pyrite clast										
59											
60	20										
61											
62											
63											
64											
65											
66											
67											
68											
69											

base thrust (FeCh)

Fault? 30°

pyrite clast

20

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
68	✓											
70	✓			-@ 23.9 m - there is a 10-20 cm zone of up to 80% dark green Fe and chl/sar (ite) suffaceous material - possibl. flow top? or hiatus?								
72	✓											
73	✓											
74	✓											
75	✓											
76	✓											
77	✓											
78	✓											
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147	✓											
148	✓											
149	✓											
150	✓											

fract @ 18°
 gouge @ 45°
 fol @ 35°

QU
 weathered (to Dr)

75

80

blotchy
 PY

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
22	✓										
23	✓										
24	✓										
25	✓										
26	✓										
27	✓										
28	✓										
29	✓										
30	✓										
31	✓										
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111	✓										
112	✓										
113	✓										
114	✓										
115	✓										

- 110.0m ~ approximate location of increase in argillite matrix + a decrease in pale green ash

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
115											
116											
117											
118											
119											
120											
120.5				1205 -	Approximate end of Argillite Matrix.						
121					Greenish Sarcinite Matrix resumes						
122					↓ (to 152.5m)						
123											
124											
125											
126											
127											
128											
129											
130											
131											
132											
133											
134											
135											
136											
137											
138											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
138											
139		✓									
140		✓	70								
141											
142		✓									
143		✓									
144											
145		✓	65								
146		✓									
147											
148		✓									
149		✓									
150		✓	70								
151		✓									
152		✓		End of Green Sericite Matrix.							
153		✓		leached Rhy horizon - looks like gztzite. in. sacrosite (10-15cm wide) - dark-grey green colored. massive i.e. not foliated							
154		✓									
155		✓	65	152.5m to 156.9m RHFRL - Fragmental Rhyolite (as above) with a dark grey argillitic matrix.							
156		✓									
157		✓		156.9m to 162.25. RHFRL - sericite matrix.							
158		✓									
159		✓									
160		✓	45								
161		✓									

Composites (?)

PAGE	OF	PROJECT:					HOLE NO.		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		162.0	163.5	2.0	106463				
		163.0	164.5	1.5	106464				
		164.5	166.5	2.0	106465				
		166.5	168.5	2.0	106466				
		168.5	170.0	1.5	106467				
		170.0	171.5	1.5	106468				
		171.5	173.0	0.5	106469				
		172.0	172.25	0.25	106470				
		172.25	172.5	0.25	106471				
		172.5	172.75	0.25	106472				
		172.75	173.0	0.25	106473				
		173.0	173.25	0.25	106474				
		173.25	173.5	0.25	106475				
		173.5	173.75	0.25	106476				
		179.4	179.55	0.15	106477				
		179.55	181.5	1.95	106478				
		181.5	183.5	2.0	106479				
		183.5	185.5	2.0	106480				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
184				173.0m to 173.5m ADTT - APHERIC INT. VOLC - v. fine gr. - cherty matrix - internal to PE								
185				- chlorite rich, particularly along fractures								
186				- sharp contacts (sprung) - 2-3% pt								
187												
188				173.15m to 173.25m APHERIC RM1 (Bx-FANZIA)								
189				- as above to pt								
190				173.25m to 173.35m CARBONATE EXHALITE (?)								
191				- part of a larger zone from 173.5m to 175.25m.								
192				- carb. filled fractures etc.								
193				- sheared, light grey, aphanitic, aphanitic Rhy, thinly banded. (1-2cm) with minor <10% thin successions, cream colored, carbonate horizons, to 1.5 pt.								
194				173.35m to 175.25m THINLY BANDED APHERIC RM1								
195				- as above - less Bx - more shear - 80-90% , .5-1cm light grey. Fr. gr. Rhy. bands with sericitic partings - <10% , 1-2cm carb. layers.								
196												
197												
198				175.25 to 187.0m RMFR - as above - ser. matrix								
199				- light grey to greenish grey color - sheared - banded in part - fairly intense ser. alteration From 178.4m to 179.5m								
200				182.5 Sphalerite								
201				187.0m to 195.25m ARSI - SILICEOUS ARGILLITE.								
202				- grey to dark grey to black - 1.0-3cm - v. fine gr. aphanitic. amylaceous & light bands with a dark grey - black sil. argillite matrix. (1:5)								
203				- more bluish at top & sharp contact below.								
204												
205				- 1-2% dis or blabby py in to 2m.								
206												
207												

green sericitic matrix

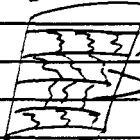
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PAGE OF		PROJECT:						HOLE NO.	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		185.0	187.0	1.5	106481				
		187.0	189.0	2.0	106482				
		189.0	191.0		106483				
		191.0	193.0	2.0	106484				
		193.0	195.25	2.25	106485				
		195.25	198.0	2.75	106486				
		198.0	200.0	2.0	106487				
		200.0	202.3	2.3	106488				
		202.3	204.0	1.7	106489				
		204.0	205.7	1.7	106490				
		205.7	207.0	1.3	106491				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
195.25m to 202.3m	✓			RMFR - Banded Rhyolite (Fragmtl) - pale grey to greenish grey. - sericitic, altd, banded appearance. - 70-80%, 1-3cm, aphanitic, aphanitic Rhy bands (Flattened frags) in a sericitic (qtz-sar schist) matrix (distinct bands) - tr-1% ds py								
202.3m to 205.7m	✓			RMAR - Interbedded Rhy / ARG. - overall dark grey to v. dk grey color - 30-40%, 1-15cm, lt. grey, aphanitic, aphanitic Rhy bands - 60-70%, v. fm. grad, thickly banded (sheared), dark grey to black. siliceous argillite. - tr-1% ds = lobbpy py								
205.7m to 217.85m	✓			RMFR - Pale Green Frag. Rhy - overall light grey to greenish-grey - as above (195.25-202.3m), however, coarser fragments with a less distinct sericitic matrix (i.e. thinner partings vs. bands). - lower portions of unit (~212-217.85) exhibits a peppery texture in the Rhy Frag/bands with dark green chd (?) after cubed py cubes (1-2mm). - tr-1% py throughout								
217.85m to 226.20m	✓			ARST - Siliceous Argillite - overall dark grey color - thickly banded, sheared. bedg oblique to folia.								
226.20m to 227.85m	✓			Folia (70-80°) bedding (?) - v. fm. grad., alternating, 1-5mm sericitic/argillitic, + siliceous bands - overall v. sil's appearance - tr ds py - gradual contact above + below								

Chl. Frag py

qtz Rhy or RM FR



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
230				226.20m to 232.4m RHFR - Flattened-banded-sericitic - overall pale grey to greenish-grey - pale washed-out, light grey to slightly darker greenish-grey, aphanic / aphanitic, 1-3cm Rhy bands - Flattened-dests with a sericitic component in the darker greenish-grey (5-1cm) interbeds (25-30%)								
231				232.4m to 245.7m ARS1 - Siliceous Argillite to dark grey Arg. / Rhy (?) (as with previous units)								
232				- overall black to dark grey color - thinly banded - sheared - trans-formed bedding.								
233				- 1.5m grad. (15-2cm) bands -								
234				- v. siliceous, 1-2% drs py, 8mm sph band								
235				- highly Fract'd - 10-20° to CA -								
236				CHL + carb (2-10mm thick)								
237				- bxd From 240.5 - 241.5								
238				245.7m to 246.7m TF4 - MIXED UNIT OF INTERBEDDED + ARS1 CALCAREOUS INTERMEDIATE LAPILLI TUFF AND SILICEOUS ARGILLITE								
239				- ~50/50, v. fin. grad. thinly banded, aphanic / aphanitic, dark grey - blk, sil / Arg or log Rhy; and dark grey-green lapilli tuff								
240				- lapilli tuff is ~50%, to 4mm white Feldspars (?) - now replaced by calcite and siliceous v. fin. grad. chlorite mtx								
241				- tr. 1% drs py								
242				246.7m to 247.5m ARS1 - SILICEOUS ARGILLITE (as above)								
243				- v. Fin. grad. thinly banded, aphanic, dark grey to blk, siliceous bands (sil Arg / Rhy (?))								
244				246.7-247.0m Carb / latz altered zone + pt. - abundant 1-3mm contorted calcite veinlets.								
245				247.5m to 248.7m TF4 - CALCAREOUS INTERMEDIATE LAPILLI TUFF								
246				- overall dark green color								

highly Fract'd 10-20° to CA + CHL

234-235

245

245.7
246.7
247.5
247.5

249.3
249.7
250.7

251

252

253

234.95m

60

PAGE	OF	PROJECT:					HOLE NO.		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		230.4	232.4	2.0	106601				
		232.4	234.4		106687				
		236.4	236.9	1.6	106602				
		236.0	235.0	2.0	106603				
		238.0	240.0	2.0	106604				
		240.0	242.0	2.0	106605				
		242.0	244.0	2.0	106606				
		244.0	245.2	1.2	106607				
		245.2	247.2	1.0	106608				
		240.2	242.5	0.9	106609				
		247.5	249.2	1.2	106610				
		249.2	250.9	2.1	106611				
		250.9	252.0	2.0	106612				
		252.0	254.0	1.5	106613				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
253				- 10-20%, 1-2mm white spots - calcite (replacement of Feldspar phenos?), and 10-20% thin (1.5-1cm) carbonate bands, in a Fin. grd. chl + carb matrix (H-sericit)							
254											
255				- very well foliated							
256				- tr. ds py.							
257											
258				248.9m to 260.55m	TF45 - MIXED BAG OF CALCAREOUS INTERMEDIATE TUFFS AND LAPILLI TUFFS - VARIABLY SERICITIZED						
259					- as above, green-to pale green carbonate alt'd (H-sericit), tuffs with Lapilli ranging from 1mm to 5mm.						
260					- tr. 2% ds py (H-grn)						
261					- QU's @ 249.3 - 249.6m, 253.5m, 253.7-253.8m, 253.95-254.15m, 256.2m, and 260.4 - 260.55m (crushed)						
262					- Gouge - 260.2 - 260.3m						
263											
264				260.55m to 262.0m	ARSI - Siliceous Argillite / Rhy - overall dark green-black color - thin bedded (sheared) (w/ contorted beds between shear beds (as with previous units) - hard, siliceous, broken core - very fine grained. - 3-5% ds + vein (remobilised) Fin. grd to blebby py + sph (tr-1%)						
265											
266											
267											
268											
269				262.0m to 263.0m	TF4 - Sheared altered (sericitized) - Qtz-veiled. (30% of interval) - Pale green color - thin (1-2mm), Fin. grd sericitic bands, with thin Lapilli or Qtz/Feld-phenos bearing in ter bands (<1cm) - tr-1% ds py.						
270											
271											
272											
273											
274				263.0m to 266.1m	ARSI - Siliceous Argillite - as above however, tr-1% ds py. - broken core, QU's: 263.3-263.5m, + 265.4-265.6m - 6mm white gr. - gouge: 263.1-263.3m + 264.9-265.1 + 265.6-266.1m						
275											
276											

5th/01
1st shag
FLT
60/60

260
P1 → QV

35%
P1/Py

262
ser
alt'd

QV

QV

264

QV

266

QV

268

269

270

271

272

273

274

275

276

Avg-foot

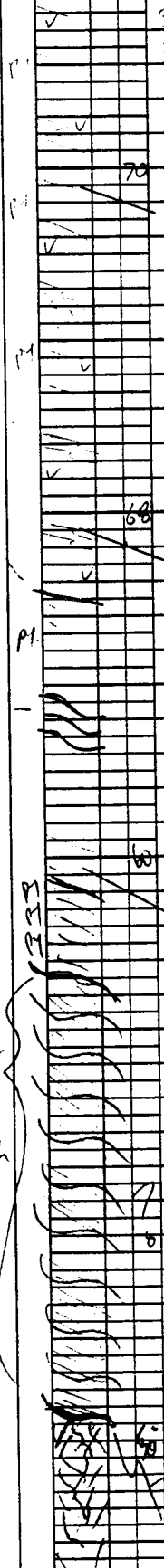
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
276				266.1m to 268.2m RMFS - Aphanitic Felsite (alt'd)							
277	QV			- light green green green color - thin bedded fine grained aphanit. open to light-grey Rhy bands (1-3cm) with up to 40% 1-5mm pale green sericite interbands.							
278	sph(?)			- sheared, QV'd = 266.3-266.6m							
279	Carb. Bands.		85	267.0-267.8m							
280				- tr. ds py.							
281											
282				282.6m to 282.6m ARS1 - Siliceous Archaite							
283	minor arg.			- (as above) dark green to black - v. fine gr. thin bedded sheared - QV's - 276.5-276.75, 276.55-276.75m, 276.85m, 277.05-277.15m, 277.4-277.5m							
284				- Rhyolitic, fine gr. green to olivaceous between 274.4 + 275.9m (tr. py), sph @ 278.6m							
285	QV		78	- abundant (10-20%) thin (2cm) contorted coarse gr. light green siliceous sericite bands in ARS1 between 274 + 282.6m							
286	Carb. bands										
287											
288				282.6m to 285.75m RMST - possible lapilli							
289				- pale lt. green to green-green - thin bedded (2cm) sheared v. fine gr. silica - Rhy in a sericite-rich matrix.							
290			68	- robust phenos - lapilli now sericite +/- carbonate alt'd							
291	QV			- tr. ds py, QV's - (2cm) 284.7m							
292	QV, R, L, niobol, py			- minor Archaite (285.2-285.35m)							
293				285.75m to 288.20m ARS1 - As above - w/ Qtz - Carb. bands (v. similar to interval 278-282.6m)							
294	tr. py			- dark gr - blk sheared sil arg. + 10-20% thin 2cm light grey silica-carb. bands.							
295			70	- 2-3% ds + blobby py.							
296											
297				288.20m to 299.3m RMST - (as above 282.6-285.75m)							
298				- pale green to brownish grey - with fine bed. fine grained silica-sericite bands @ possible robust phenos (lapilli is it?)							
299											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		276.0	277.5	1.5	106622				
		277.5	279.0	1.5	106623				
		279.0	281.0	2.0	106629				
		281.0	282.0	1.0	106630				
		282.6	285.25	2.65	106631				
		285.25	288.2	2.95	106632				
		288.2	289.5	1.3	106633				
		289.5	291.5	2.0	106634				
		291.5	293.5	2.0	106635				
		293.5	295.5	2.0	106636				
		295.5	297.5	2.0	106637				
		297.5	299.5	2.0	106638				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
299				- abundant QV's - 298.9 - 299.05m							
300				299.45m, 299.7m, 299.0 - 299.2m							
				299.4 - 299.6m, 299.7m - 299.8m							
301				1 BLEBS OF QV → 299.9m - 299.4, 299.5 - 299.6m							
				299.9 - 298.1m							
302				- trace ch3 py							
303				299.3m to ARSI - (as above) - Fairly brecciated							
				308.85m - dark green to black							
304				- v. fine grained well indurated, thick banded (1.1cm)							
305				- abundant thin ate veins (1 blob							
				seen in core 306.2m							
306				- abundant (1-3%) ch3 & blebby py							
				thruout - 2cm silica-py band							
307				at 307.2m Pa 10cm carb. layer above.							
				- 307-308.85m - wh. thin grt-carb-							
308				py (1/2 sph) bands (also, contorted							
				to wh. py).							
309				308.85m to RARFQ - Feldspar Porphyritic Rhy							
				330.75m - Comp. low interval							
310				- generally a fine gr. light green to							
				greenish, no calc. veins							
311				throughout occasionally, feldspar							
				inclusions - Rhy.							
312				- Abundant QV's throughout							
				12-20cm ~ 10-20% interval							
313				- often with fairly intensely							
				sericitic alteration, with							
314				abundant fine gr. py →							
315				- Sericitic alteration, palest							
				light green color, between ...							
316				317.2m - 318.4m, 319.75m - 321.6m							
				323.2m - 324.4m, and 326.0 - 328.8m,							
317				and 329.65m - 330.5m							
318				- Feldspar rich units variable							
				throughout: feld-phases are							
319				2-10mm, ranging from wh. to carb							
				set in thin (1-1.5cm) d.							
320				- Abundant fine gr. py throughout							
				(2-3%) - locally up to 5% (314.9m - 317.1m)							
321				as lists and as wh. py bands 3-15mm							
				+ sph (?)							
322				- weakly brecciated & fractured zone							
				from 312.5m - 313.5m							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		271.3	272.3	1.0	106637				
		272.3	273.3	1.0	106638				
		273.3	274.3	1.0	106639				
		274.3	275.3	1.0	106640				
		275.3	276.3	1.0	106641				
		276.3	277.3	1.0	106642				
		277.3	278.3	1.0	106643				
		278.3	279.3	1.0	106644				
		279.3	280.3	1.0	106645				
		280.3	281.3	1.0	106646				
		281.3	282.3	1.0	106647				
		282.3	283.3	1.0	106648				
		283.3	284.3	1.0	106649				
		284.3	285.3	1.0	106650				
		285.3	286.3	1.0	106651				
		286.3	287.3	1.0	106652				
		287.3	288.3	1.0	106653				
		288.3	289.3	1.0	106654				
		289.3	290.3	1.0	106655				
		290.3	291.3	1.0	106656				
		291.3	292.3	1.0	106657				
		292.3	293.3	1.0	106658				
		293.3	294.3	1.0	106659				
		294.3	295.3	1.0	106660				
		295.3	296.3	1.0	106661				
		296.3	297.3	1.0	106662				
		297.3	298.3	1.0	106663				
		298.3	299.3	1.0	106664				
		299.3	300.3	1.0	106665				
		300.3	301.3	1.0	106666				
		301.3	302.3	1.0	106667				
		302.3	303.3	1.0	106668				
		303.3	304.3	1.0	106669				
		304.3	305.3	1.0	106670				
		305.3	306.3	1.0	106671				
		306.3	307.3	1.0	106672				
		307.3	308.3	1.0	106673				
		308.3	309.3	1.0	106674				
		309.3	310.3	1.0	106675				
		310.3	311.3	1.0	106676				
		311.3	312.3	1.0	106677				
		312.3	313.3	1.0	106678				
		313.3	314.3	1.0	106679				
		314.3	315.3	1.0	106680				
		315.3	316.3	1.0	106681				
		316.3	317.3	1.0	106682				
		317.3	318.3	1.0	106683				
		318.3	319.3	1.0	106684				
		319.3	320.3	1.0	106685				
		319.75	321.6		106651				
		321.6	323.3		106652				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
322				lots of photos from sph band at 324.2m to 325.0m (see)							
323				330.75 m to 342.6 m - overall dark grey to black.							
324				(1-3% mica in the matrix at top 2m. also some clastic tips .5m)							
325				- 1. Fine-grained, thin, banded (well dyl. int.)							
326				- quite graphitic (apart from top)							
327				- qtz veins + fault gouge. (336.25m to 342.6m)							
328				* - 50% Encl. like + blebby (tr sph) in siliceous bands to argillite (335.0 - 336.25 m).							
329				(FAULT ZONE)							
330				342.6m to 346.9m APSI - BX - SILICIFIED							
331				- intense silicification, "qtz-veining" of Graphitic Argillite with brecciation - Fault zone							
332				- generally Qtz's are at 60° to CA, comprise 40-50% of rock, +/- carb.							
333				- tr 1% patch (blebby) P1							
334											
335											
336											
337											
338											
339											
340											
341											
342											
343											
344											
345											



Actual dip 68°

FLT 69 Graph Arg.

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		323.3	324.5		106653						
		324.5	326.6		106654						
		326.6	328.8		106655						
		328.8	330.25		106656						
		330.25	332.25		106657						
		332.25	335.0		106658						
		335.0	336.25		106659						
		336.25	338.0		106660						
		338.0	341.0		106661						
		341.1	343.0		106662						
		343.0	345.0		106663						
		345.0	346.0		106664						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
346.9m to 350.95m				DARK GREY - ARGILLACEOUS - TOLYDITE (RM > ARG) - dark grey color, v. fine gr., aphanitic, sheared & contorted thin (<1cm) banding. - some bxl (w) thin (.5cm) silice + carb +/- py veining. (10-20% CA) - 1-2% blebby py throughout. Ppaddy (remobilized?)							
350.95m to 351.6m				ARSI - sheared - ARRT(?) - overall v. dk grey to black color, v. fine gr., thin bedded (1-4mm), well							
351.6m to 352.0m				+/- Graphite Foliated with up to 30-40% whistly (1-3mm) to lenticular (<1cm x 3cm) lighter grey, slightly coarser grained Rhy hepilli (?) - If gr - which lenticular frags are often also calcareous +/- py. - 2-3% fine dz + blebby py (tr sph?)							
351.6m to 351.8m				ARGILLACEOUS - RUFF (Fine tuft) - grey (lighter grey than Arg) - massive med. gr. Feld-qtz zone, Argillaceous Rhy tuft (Fine Tuft to x1 RUFF)							
351.8m to 352.4m				ARSI - sheared - ARRT - as above (simil. py min'n) - well developed "shear fragments"							
352.4m to 352.6m				SHEARED - RUFFS - as above (346.9-350.95) - sheared: Fragmental looking							
352.6m to 359.6m				MIXED SHEARED ARG - RUFFS and ARSI - ARRM - as described above. - foliated to deformed. - pseudo-fragmental textures (?)							

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		346.9	349.0		106665						
		349.0	350.8		106666						
		350.95	351.6		106667						
		351.6	351.8		106668						
		351.8	352.4		106669						
		352.4	352.6		106670						
		352.6	353.0		106671						
		353.0	354.1		106672						
		354.1	355.6		106673						
		355.6	357.0		106674						
		357.0	359.35		106675						
		359.35	361.6		106676						
		361.6	363.5		106677						
		363.5	365.5		106678						
		365.5	367.5		106679						
		367.5	369.5		106680						



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368				359.35m to ARS1 - sheared							
369				361.60m - grey to dark grey, v. fine gr., well foliated - banded (<5mm) - minor graphitic component - to obs. py.							
370				- "pseudo fragmental texture"							
371											
372				361.60m to ARG - SIL ARG. - sheared							
373				380.70m - overall v. dk grey - blk color - v. fine gr.							
374				- well foliated - thinly banded "pseudo fragmental" texture.							
375				- abundant fine siliceous bands / Frag up to 20% / 10cm @ 378.5 + 380.0m, 2-3% py (blebs + ds) between ~374m + 380.7m							
376				- increase in % + thickness (~1cm) of grey - dk grey siliceous bands between 373 + 374m							
377				- gouged (370.4 - 370.9m)							
378											
379											
380				EOM - 380.70m (1249')							
381											
382											
383											
384											
385											
386											
387											
388											
389											
390											
391											
392											
393											
394											
395											
396											
397											
398											
399											
400											

2-3% P7 (SIL) →
 2-3% P7 (SIL) →
 2-3% P7 (SIL) →

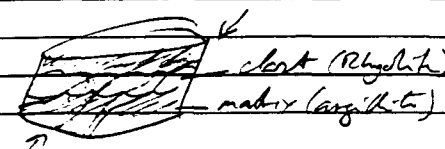
EOM
 380.7m
 (1249')

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverine Stratigraphic Drill Program</i>	GROUND ELEV. <i>1670 m</i>
HOLE NO. <i>WU-96-38</i>	BEARING <i>180° GEO SOUTH</i>
LOCATION <i>L 8000 E / 19700 N (100m GRIND WU-95-15)</i>	DIP <i>-80</i>
	TOTAL LENGTH <i>1669' - 508.7m</i>
LOGGED BY <i>Andrew Turner</i>	HORIZONTAL PROJECT
DATE <i>July 2/95</i>	VERTICAL PROJECT
CONTRACTOR <i>F. BOISVENU Diamond Drilling.</i>	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE <i>NQ # / 84 TW</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE STARTED <i>July 1/96</i>	
DATE COMPLETED <i>July 8/96</i>	
DIP TESTS <i>ACID TESTS</i> <i>30' = -80°</i> <i>800' = -65°</i> <i>1669' = -45°</i>	
COMMENTS <ul style="list-style-type: none"> - No Significant Mineralization was encountered - The Carb/Chl det'd Feld x/tuffs (T4) were observed between 201.0m and 206.8m - 1-2% disseminated and blebby py (associated with sheared out qtz veins? - nodular - 2nd ary) was common throughout the Argillites of the lower 300 m of the hole; 1-2% of py dr's sph (?) was observed between -358 + ~362 m. 	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0				0 to 2.7m CASING - overburden (Selenore)							
1				2.7m to 56.7m RHFZ - mixed argillite - sericite matrix							
2											
3	27			- primarily a well developed frag- mental Rhy rock with up to 20-25% sub rounded (sheared), aphanic, aphanitic, 1-15cm (4-8cm). light grey, grey & greenish grey. Rhy clasts (frags) within a v. fine gr. foliated (sheared); dark grey argillite matrix which is locally altered to sericite (+ silicification).							
4											
5											
6	carb.										
7											
8											
9											
10											
11	ch. buff										
12											
13											
14											
15	ch. buff										
16											
17											
18	carb.										
19	carb.										
20											
21											
22											
23											



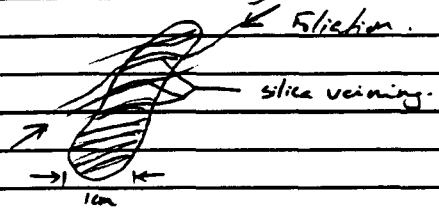
clast (Rhyolite)
matrix (argillite)

- to coarse lvs py throughout
- between - 30.0m - 56.7m, the
matrix of the unit is variable
alt'd to sericite, contact between
altered (pale green sericite)
and unalt'd (dark grey) matrix
is sharp.

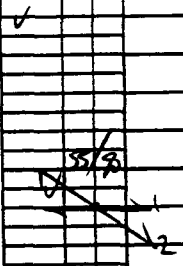
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
46											
47											
48											
49				F ₁ - obscured due to fragmental texture (no well defined bedding orientation)							
50				F ₂ - variable due to reprecipitation from fragments to matrix. (30-70% CA)							
51											
52											
53											
54											
55				55.0m - 5cm brecciated zone (RHFR) up to 20% py as matrix to fragments							
56											
57				56.7m to RHFR - sericitic matrix							
58				- silicification (?)							
59				- banded appearance due to flattening of clasts (?)							
60				- good H grey to green-grey color							
61				- as above however,							
62				- also, clast/fragment size is lower & more consistent than above (2-12cm, ~5cm avg)							
63				- 1-1% coarse-blobby py xls. through out							
64				- 1-2% po in tensile fractures to F ₂ (4mm x 2mm). in Rhy Frag. @ 65.0m							
65											
66											
67				Rhy frag.							
68											
69				- several large (45mm) blebs of P ₁ @ 65.0m							



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
69												
70				(~67m to ~130.0m) RHFZ exhibits a micro-fractured texture - SILICIFICATION								
71				- Unit has a distinctive pale green-grey color which extends from the edges of the Rhy fragments inward, mottled appearance.								
72												
73												
74				- Rhy fragments exhibit very fine fracturing / silice veining parallel to the foliation								
75												
76												
77												
78												
79												
80												
81												
82												
83												
84												
85												
86												
87												
88												
89												
90												
91												
92												



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
92											
93											
94											
95											
96											
97											
98											
99											
100											
101											
102											
103											
104											
105											
106											
107											
108											
109											
110											
111											
112											
113											
114											
115											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
115											
116											
117											
118											
119											
120				120.1m to	RHFR - Argillite matrix > ser. mbr - as above, however, matrix 75-80%, dark grey argillite material (ie. not ser. act'd?) - minor "SILICIFICATION", texture (rare) - hrs py/po - gouge - crushed zone. 131.9m - 132.8m.						
121				135.9m							
122											
123											
124											
125											
126											
127											
128											
129											
130											
131											
132											
133											
134				133.9m to	RHFR - Sericite matrix - as above - continuation of pale grey-green "SILICIFICATION" texture - good FR texture. - hrs py/po - into Bp FIt zone @ bottom.						
135				168.9m							
136											
137											
138											

Sericite mbr

Argillite Mbr

Argillite Mbr

Sericite Mbr

75
85

(70)

FIt.

158

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
138											
139	✓										
140	✓										
141											
142	✓										
143	✓										
144											
145	✓										
146	✓										
147	✓										
148	✓										
149	✓										
150	✓										
151	✓										
152	✓										
153	✓										
154	✓										
155	✓										
156	✓										
157	✓										
158	✓										
159	✓										
160	✓										
161											

Sample interval

139 ✓

140 ✓ → 5.75

142 ✓

143 ✓

145 ✓ → 5.77

146 ✓

147 ✓

148 ✓

149 ✓

150 ✓ → 5.75-80

151 ✓

152 ✓

153 ✓

154 ✓

155 ✓ → 5.78

156 ✓

157 ✓

158 ✓

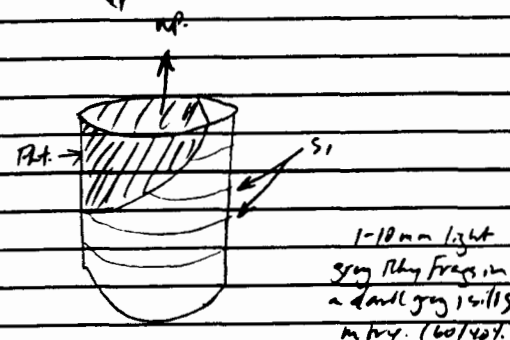
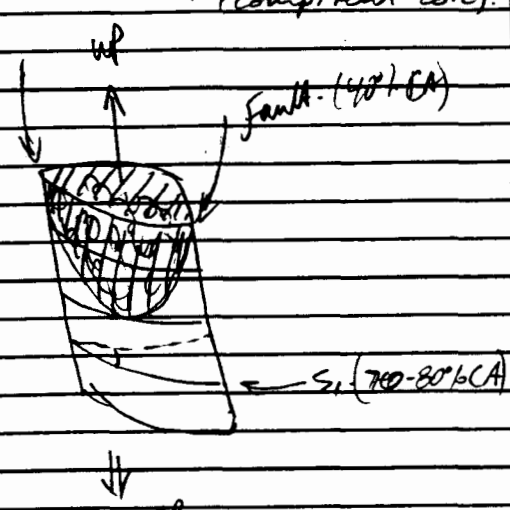
159 ✓

160 ✓ → 5.60

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		138.0	140.0		106748				
		140.0	142.0		106749				
		142.0	144.0		106750				
		144.0	146.0		106752				
		146.0	148.0		106753				
		148.0	150.0		106754				
		150.0	152.0		106755				
		152.0	154.0		106756				
		154.0	156.0		106757				
		156.0	158.0		106758				
		158.0	160.0		106759				
		160.0	162.0		106760				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					P ₁ 1/1-5/1 A	cl B	C	D	E			
161				(161.25-161.60m) - brecciated RHFS (fault zone) - silica-healed. (competent core).								
162												
163												
164												
165				164.0								
166				168.A								
167												
168												
169												
170												
171												
172												
173												
174												
175												
176												
177												
178												
179												
180												
181												
182												
183												
184												

(161.25-161.60m) - brecciated RHFS (fault zone) - silica-healed. (competent core).



1-10mm light grey Rhy frags in a dark grey siliceous matrix. (60/40%)

168.9-169.4m - QTZ & CARB VWIN
 169.4-170.0m - well developed, py/silica-healed Bx
 170.0m to 173.5m - RHFS to RMR - banded RHY, looks like RMR above however less matrix (i.e. sericitic frags)

- v. lt. grey color
- 1-3cm, v. fine-gr. Rhy Bands (?) with <10% 1-3mm sericitic frags.
- fractured @ 20-30 to CA. (Fill @ 75-80)

173.5m to 174.7m - (172.0-172.2m) by - FLT zone, silica-healed, dark grey color. (as above 169.4m-170.0m)
 ? - KAOLINITE (?) on Fracs + late veins.

173.5m to 174.7m - Bx - FLT - dark grey, fine Bx, silica-healed
 - B'd, dark grey, thin banded (arg. laccous) Rhy. (as above).

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ		
					A	B	C	D	E				
184				174.7m to 184.8m	Bx-FLT - Argillaceous Rhyolite + Siliceous Argillite - H- green sericite alteration								
185				SP (Bx)									
186					- getting into top of Fault zone.								
187					- overall dark grey to green-grey color								
188					- interval varies between, dark grey, v. fn. grained, aphanic, thick banded, argillaceous Rhy								
189					(top 1m + bottom 1.5m) - to a dark grey + green, weak foliated (1-2m bands) of v. fn. gsd, siliceous argillite which is variably sericitized (H-chd) in the central portion.								
190													
191													
192													
193				184.9m to 184.7m	QTZ-VEIN - Broken, white, v. pale-greenish-grey sericite (H-carb?)								
194													
195				184.7m to 185.2m	Bx-GOUGE-FLT- ARGIR								
196				185.2m to 189.3m	RHFS - Bx - (185.0-187.0m) - Gouge.								
197					- 1st - 2m - green-grey gouge, mixture of v. fn. gsd, lt grey Rhy frags + sericite gouge								
198					- 2m half of unit is more competent but fractured								
199					- lt. sericite Mhy @ 2-5m v. fn. gsd, aphanic, lt grey to greenish grey Rhy bands.								
200													
201				189.3m to 194.25m	Bx'd to Gouged (Faulted) Argillaceous Rhyolite - RHAR								
202					- overall dark grey color								
203					- thickly banded (2-5m), siliceous, v. fn. gsd, aphanic, argillaceous Rhy.								
204					- Bx'd to Gouged (top 1.5m), otherwise strongly fractured								
205					- to ds of								
206				194.25m to 195.3m	Gouge - STGB - lt. grey-green ser. alt Rhyolite								
207													

coming out of Fault zone

ARGT

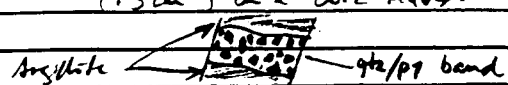
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
253				230.0 to 237.9 ARG - 1-2% py throughout, locally up to 5% (233.5 m), 4 spl chips (?)							
254				237.9 m to 239.3 m RHAR - Sericite altered Argillaceous Rhyolite							
255				- dark grey to greenish grey							
256				- v. fin. gr. aphanitic, siliceous - Rhyolitic bands (1-10mm) in an argillitic matrix							
257				- matrix variably altered to pale grey-green sericite (4-cl) most intense alt'n proximal to QV @ 258.1-258.3 m.							
258				- tr. ds. py.							
259				239.3 m to 262.4 m ARG - Argillitic + Graphitic Arg.							
260				- v. dk. green to black							
261				- v. thin banded / well-foliated (< 2mm), minor thin (< 5mm) lighter grey, siliceous bands (< 10%)							
262				- 2-3% v. fine xline py throughout							
263				- has an unusual fracture, appears beaked (?)							
264				- QV's @ 246.0m, 259.0m, 262.0m							
265				- occasional thin gouge zone in top 10m							
266				262.4 m to 263.1 m ARS1 - Grey Laminated Siliceous Argillite							
267				- grey, v. fine gr, siliceous, well foliated (1-3mm), tr. ds py.							
268				- sheared Rhy unit (?)							
269				263.1 m to 275.4 m ARG - Argillite + Graphitic Arg.							
270				- as above (263.3-262.4 m).							
271				- also has a beaked appearance, or sound when tapped							
272				- also has a speckled appearance, as well as banded-laminated, possible lapilli (?)							
273				275.4 m to 276.5 m ARS1 - Siliceous Argillite							
274				- as above (262.4-263.1 m)							
275											
276											

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
276				276.5m to RPQT - Quartz Phen, Argillaceous XL Tuff							
277				281.8m - Minor ARG - 277.75-278.25m, 278.4-278.65m							
278				- overall grey color, well-splashed (laminated) 2mm							
279				- consisting of siliceous fragments or sheared bands (2mm x 10mm)							
280				with 10% (1-3mm), light grey to blue quartz-eyes, and 10-20% 1-2mm, dark black, chert (?) fragments, and 1-2% ^{black to} py.							
281				- black lithic fragments are quite distinctive of this unit, and are only very rarely observed above this point in the overlying Argillites & Graphitic Argillites.							
282											
283											
284											
285				281.8m to (ARSI to RHAT) ? - Graphitic Argillite and Dark Grey Rhyolite Bands & Fragments - Sheared							
286				(RHAT ?) - Argillaceous Rhyolite (?) - 40-50% black, foliated, graphite argillite matrix with 50-60% 1-6cm, irregular shaped to bands of aphanitic, aphanitic, Rhy? - some bands near top of unit contain the black cherty fragments observed in the unit above							
287				- 1-2% coarse ds. py.							
288											
289											
290											
291											
292				293.8m to ARG - RHAT - Graphitic Argillite and Rhyolite lapilli							
293				- strong speckled appearance produced by shearing with ~40% lenticular, 2-4m x 5-20mm light grey siliceous "Frag" (?) within a foliated Graphitic Argillite matrix							
294				- siliceous bands often contain black cherty frags + py (2-3% throughout)							
295				- rem gradual decrease in siliceous bands + fragments downward							
296											
297											
298											
299											

DEPT. (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
322											
323											
324											
325											
326											
327											
328				328m to banded ARIF							
329				334.7m							
330											
331											
332											
333											
334											
335				334.7m to thickly banded to spotty ARIF							
336				339.5m							
337											
338											
339											
340				339.5m to - black lithic frags - ARIF							
341				339.8m							
342				339.8m to - thickly banded - ARIF							
343				340.85m							
344				340.85m to - black lithic frags - ARIF							
345				340.85m							
346				341.05m to - spotted - ARIF							
347				348.5m							

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
345											
346											
347											
348											
349				348.5m to v. thinly banded - ARSL - AROF 364.1m							
350											
351											
352											
353											
354											
355											
356											
357											
358											
359											
360											
361											
362				1-2% v. fine dis. sph 177.							
363											
364											
365				364.1m to 368.25m spotty to banded - ARTF - 2-3% c. dis py throughout - 3 large (3-4cm) pyrite/olite bands @ 368.6m, 369.4m + 371.5m; py occurs as fine plate, frag (0.5cm ²) in a olite matrix.							
366											
367											
368											

5% (Q?)



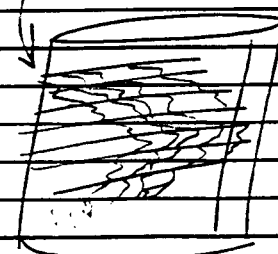
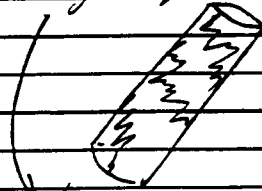
DEPT.	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368											
364	91										
370	91										
371											
372				→ 371.86 m (1220') reduced to BQ TW							
373											
374											
375											
376											
377											
378				378.25 m to 379.3 m ARSI - Thinly banded light grey Siliceous Argillite							
379				- v. fine gr. grey to light grey; aphanitic, aphanitic, s-lens sil arg. thin / Rhyolite bands							
380				- QU - 379.0 - 379.1 m.							
381				379.3 m to 383.0 m ARTF - ARSI continued.							
382				- v. thinly banded to spotty							
383				- contains 1-2% blebby py							
384				383.0 m to 384.0 m ARSI - Thinly banded light grey Siliceous Argillite							
385				- as above							
386				384.0 m to 390.5 m ARTF - ARSI - thinly banded to spotty Argillaceous Tuff							
387				- 7-8% blebby py throughout							
388				5-10% between 390 & 390.5 m							
389											
390											
391											

DEPT.	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
414											
415			62								
416											
417											
418											
419											
420			70								
421											
422				422.0m to	ARTF - thinly banded.						
423				427.5m.	- alternately, thin (≤ 1 mm), grey and black bands. - "well fishited" - 1-2% blebby py throughout						
424											
425			73								
426											
427											
428				427.5m to	ARTF - Fragmental texture						
429				432.5m	- grey laminae have become "fragments" or lensoid ~ 3-7mm x ~ 10-20mm - blebby py throughout.						
430			80								
431											
432											
433				432.5m to	ARTF - thinly banded to massive						
434				462.7m	ARMS -						
435			85								
436											
437											

DEPT	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
437											
438											
439											
440				85-S1							
441											
442											
443											
444											
445				85-S1 65-S2							
446											
447											
448											
449											
450				60							
451											
452											
453											
454											
455				82							
456											
457											
458											
459											
460				84							

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
460												
461												
462												
463	100			462.7m to 465.1m to ARMS (Sericaceous) Amphibolite - green to dark grey, minor black massive amphibolite - v. fine gr., siliceous - tr. ill. ch. py / bl. py - last 4m of section are more massive, however they contain numerous thin (1cm) qtz + py veins which have been contorted by the flin								
464												
465												
466												
467												
468												
469												
470												
471												
472					from ~ 490 m to 508.7 (100m) the core exhibits a strong cleavage at 80° (to the core axis + irregular bedding orientations ... Fold Nose (?)							
473												
474												
475												
476												
477												
478												
479												
480												
481												
482												
483												

P
P
P



S1 80
S0-65

S1 80

← 1cm →

DEPTH.	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
36	11										
507											
508	11										
509											
510				EOM							
				508.7m (1669')							

X

DEPTH.	CORE	%MAGN.	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTERFACIAL	SPIN PTZ.	CP/CL
						Sr	chl	CO ₃	Si	PO			
0-1.8	DHLC				DHLC - Cassis								
1.9-4.0	ARSC				ARSC - Dark grey, soft with lenses of "trans" of light grey feldspathic material along the foliation locally chlorite in matrix some internal green tint thin pyrite veins along the folia								
4.0-14.5	RHFS				RHFS - Variably Siliceous, Aph to fgs. Rhyolite (felsic) tuff. nod to locally well foliated. - Heavy grey "stepped" due to variably foliation which is due to variable silica content. - TE - 106 Py as thin short dashes along the folia locally Tr pyrochlorite (Magnesian) internal becomes increasingly siliceous with depth.								
12.7-14.5	RHFS				locally some of the siliceous bands appear lensoidal & may be sheared Breccia or transposed siliceous beds								
14.5-18.5	RHMS				RHMS - very Siliceous, lgy. dark grey locally foliated. Aphanitic Felsite (Rhyolite) - Py in small masses along the foliation - Ctet & larger ARSF is along the foliation - 0.3mm of Felsite Breccia in an Argyllite matrix								
18.5-21.5	RHMS				RHMS - very Siliceous aphanitic dark grey to black Siliceous Argyllite - Possible Sheared Felsite Breccia in Argyllite matrix - matrix increases w depth - Variably Sheared, variably "trans" dark grey to black. Possible Felsite Rhyolite Tuff.								
21.5-25.8	RHFS				RHFS - dk becomes lgy to green w/less to no Argyllite component.								

DHLC

ARSC

RHFS

RHMS

RHFS / RHMS

Possible Sheared Black Siliceous Rhyolite?

DEPTH feet	CODE MARKING	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	Chl	CO ₃	Si	PO	Other	Sphat	CPN
139	ADTT			Areas of v. siliceous along CteT 138.4-140.3 ADTT - contacts are along the foliated sharp. Fg. grey green turbidaceous interval - minor silica siliceous spherulite grey bands + Argillite ^{dark} grey bands								
140				140.5-152.1 ARGT - interbedded Argillite 140.4-141.3 Predominantly siliceous dark grey to black Argillite - 141.4-141.6 - ADTT Band green tuff band. - Thin carbonate bands x. cut the Colic in minor pyrite - locally thin grey siliceous bands occur with the Argillite								
141	ARGT			144.8-145.2 STFL - large zone of flt breccia interbedded near grey faint to siliceous horizons in cteT along 146.5 the Colic - Some layers have fine tan [Flt 110] spottings - grey to grey bands on sh. cold [C.A] = variable CO ₂ + elongate to disc. (Lapilli?) Argillite dominate the upper 2/3 of the interval - Argillite is locally siliceous 145.2-146.3. which appear to be sh. cold Lapilli + carbonate become more numerous lower in the interval in both Argillite + green tuff.								
142				151.1-152.2 - green tuff interval in thin from massive + elongate discontinuous sh. cold in soil 152-158.2 RNAT - sh. cold spheric Lapilli 0.1-2cm wide occur in black argillite matrix - the Lapilli have variable CO ₂ content - locally the grey - grey green Lapilli appears as bands pyrite occurs mostly in v.lets - TR ore								
143	ARGT			155.9-156.2 grey turbidaceous strong calcareous interval - lower in the interval the Lapilli are mostly fine								
144				157.6-160.2 STFL - Broken, gneiss - siliceous cteT TR ore probably a fault zone which contains sh. CO ₂ masses + interlayered green tuff + Argillite hosted Lapilli Argillite								
145	STFL											
146												
147	STFL											
148												
149	STFL											
150												
151	STFL											
152												
153	STFL											
154												
155	STFL											
156												
157	STFL											
158												
159	STFL											
160												
161	STFL											
162												

DEPTH	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					INTENSIVE	% Serpentinized	CPI
					Ser	Chl	Co3	Si1	Po			
230				230-232.4 STFL - 1' ad core recovery whole was ground - appears to be at Sericite alt. sphalerite Rhynchonellid								
231	STFL											
232				232.4-249 <u>KNAL</u> - Green py banded Qtz - Feld layers + well foliated chl + ser layers								
233				Qtz Cold Band (± 2cm) + the well fol. ser-chl layer. Banded (± 1cm) usually less								
234				232.4-239.4 - Broken + locally - ground PHal recovery appears to be complete but the core is all busted up to the cm scale - minor gouge at 238.8 - possible fault								
235												
236												
237												
238				- Pyrite is locally to 1% occurring mostly along folia but locally as inlets across the folia.								
239				* Fine Qtz Hematite Spotting occur on the folia - likely Magnetite								
240												
241				Pyrite locally occurs as euhedral cubes and Sericite bands - chl defines the folia								
242												
243				- trace red Co3 alt locally at Qtz-feld bands								
244				243.2-244.2 - Broken zone with internal chips one on the cm scale								
245												
246				The green py bands start to appear as disc. elongated lenses. Transposed beds or possibly flattened lapilli - However, the Qtz-feld layers begin to have a buffaceous texture. Suggesting deposition + subsequent transposition - minor FeCO3 vein								
247												
248												
249												
250				249-253 <u>KNAL</u> - Banded texture grades into lensoidal - Fragmented or transposed beds to folia texture								
251				- Lenses are 5cm to wide - higher py + grainy (buffaceous appearing)								
252				- Matrix is Sericite w/ vein to Porphyry mass - Pt is infrequent along folia to disc texture + lenses 1%								
253												

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					Ser	Chl	CO ₂	Sil	PO	% Spheral
369-369.8				increasing foliation Ser grading into Arzillite Ser. ≤10% Py locally along Calc - ↑ Ch ser.						
369.8 -				ARAT - - Broken up Arz. Banded in Arz. Silicat dehydr. / Blk Arzillite / silicat. mat?						
371				Structure / mat? Bands are fine grained - most serverts - pyrite is along the Calc. 21%						
371.3-371.4				CO ₂ porphiro blebs - diffuse CO ₂ + 4 km Serenonagone su/Code Band						
370-373.2				STFL -						
374-375.2				STFL - Very Broken in much gouge - zones of cts very + CO ₂ alteration - Banded Arzillite Ser						
375.2-381.3				ARTF - - Tuffaceous Arg. illite sequence - Blowing around r. gouge zone - pyrite py. thinly striped - variety shaded inter banded sil. illite in then the local tuffaceous bands - rather elongate fragments + composed beds - w/ CO ₂ all of the tuffaceous/sil. illite? beds - Pyrite is best dev. in fine veins in the Tuffaceous Bands - numerous. Chl in fine						
381.3-383.7				OHLC - Lost core						
383.7-383.5				ARTF - - Continued the same as above - with nod to shud Chl on frame - strongly shaded with tuffaceous beds (Frgs?) Pony c. top bed lower - internal is in fault contact w/ lower hanging wall graphite Arg. illite						
383.5-390				STFL - Broken zone of Banded tuffaceous Arg. illite + graphite Arzillite - Scattered zones of gouge						
390-395.2				ARCB - Carbonaceous to graphitic Arg. illite - Black to dark grey - Py content increasing - occurring in thin Beds along the folia + is rounded						

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au	Ag	Cu	Pb	Zn
FN Chl Ser lap tuff		409	411.2		105231					
FN Ser Chl Sch		411.2	413		105232					
FN Chl Ser Ch. ST		413	414.8		105233					
PW Chl Ser Sch ST		414.8	416.1		105234					
PW Ser Chl lap Sch ST		416.1	419.1		105235					
PW Ser Chl lap Sch ST		419.1	421.9		105236					
FN Ser Ch lap Sch ST		421.4	423.1		105237					
FN Ser chl cap Sch ST		423.1	424.9		105238					
FN Ser chl Sch ST		424.9	426.4		105239					
FN Ser lap Sch ST		426.4	428.5		105240					
FN Ser lap Sch ST		428.5	430.1		105241					
FN Ser Chl ap Sch ST		430.1	432.2		105242					

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% Sphal	C _n
					SOL	chl	CO ₃	Si	P ₂ O ₅			
430-442.9				RHST								
432					Very well foliated sericite beds at the top Gold Band - Locally what appear to be gte eyes are present							
433					The Old Gold Bands are thin & usually							
434					lenticular - (on scale thickness)							
435					- Purple - finely disseminated & 436.6-436.6							
436					95% trace - to 10% - locally							
437					in thin bands along the Collier foliation							
438					438.1							
439					438.8-438.9							
440					STFL - Sericite gouge - Ap at high to the foliation							
441					439.1							
442					438.8-438.9							
443					STFL - Sericite gouge at 439.2 - annular 20.5cm							
444					band of dark grey silica - ~10% Py							
445					from 439-441.4 are banded							
446					Gold/Ser Bands ± gte 5cm or more							
447					Scale underlying Sericite beds							
448					- Py 10% locally 1% occur in thin							
449					drains along the Collier							
450					443.9-444.2							
451					RPQT - Black grey to Blk argillite							
452					component gradually increases to							
453					protolith resulting in some chlorite							
454					being associated with the Sericite							
455					& less Sericite - grey/dark grey bands							
456					& grey-black intervals - still had Ser							
457					at 442.8-448.8 - almost perfect							
458					gtd-old lenses occur in a chl ser							
459					matrix - Probably transitioned beds							
460					- Pyrite 15% but dis + trace locally 0.5%							
461					- Pyrite increased in the chl doment							
462					Schists							
463					449-449.3 - Argillite interval w/ CO ₃ using							
464					strong CO ₃ - Pyrite Pyrite are in thin elongate							
465					'Hatch' marks along the Collier							
466					445.2-445.11							
467					ARTE - Grey to Black sulfaceous (Bk?)							
468					Argillite bedded & Blk argillite - locally							
469					case sulfaceous - sulfaceous bands							
470					occur locally - Pyrite in dis to							
471					basaltic lens - matrix is 20.5cm beds							
472					445.6-445.7							
473					Sericite schist - STRONG CO ₃ alt							

Diamond Drill Hole WV96-39

Summary of Log Intercept

395.2-401.58 Meters

Avg. Core Angle 58.2°

*True Interval
5.3m*

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
393.2	395.2	2.0	Hanging-Wall Argillite Well-foliated, black to dark grey, carbonaceous argillite. Thin, mm scale lenses of carbonate altered tuffaceous argillite or possibly carbonate exhalative. Interval has a "tiger-striped" look. Pyrite is fine-grained and disseminated in the argillite and semi-massive within the thin carbonate bands.
395.2	395.6	0.4	Jumbled, Blocky, Sphalerite + Pyrite Massive Sulfide Highly fractured and difficult to piece together. However, contact appears sharp along the foliation with the hanging-wall argillite. Mineralization consists of a 10cm, almost massive sphalerite layer with interstitial tetrahedrite (15%) at the top of the massive sulfide interval. Below the sphalerite band pyrite predominates, is very fine-grained and locally shows "buckshot" texture. Wispy bands of sphalerite occur within the pyrite. Minor pyrrhotite.
395.6	395.8	0.2	Mottled Massive Pyrite and Chalcopyrite Massive Sulfide Mottled texture due to silica/sericite gangue and networked texture of the chalcopyrite (10-15%) between sphalerite bands. The sphalerite bands contain buckshot, coarser-grained pyrite.
395.8	396.18	0.38	Very Fine-Grained Massive Pyrite Massive Sulfide Very fine-grained, massive pyrite with scattered nebulous masses of chalcopyrite (1-2%). 0.5 to 1.5cm sized bands of sphalerite + pyrite and silica + sericite gangue define two different layers within the interval.
396.18	396.58	0.4	Mottled Sphalerite-Rich Massive Sulfide Sphalerite-rich (15-20%) interval. Sphalerite banding is minor. Sphalerite is present in a "networked" texture with pyrite and chalcopyrite (5%) masses. Mottled texture is due to blebs of silica and sericite gangue.
396.58	397.8	1.22	Very Fine-Grained Pyrite with Sphalerite Massive Sulfide Very fine-grained massive pyrite with abundant sphalerite (20%) banding (≤ 1 cm). "Buckshot", coarser-grained pyrite speckles the pyrite bands. Blebs of < 1 to 3cm silica + sericite spot the interval and are often rimmed with chalcopyrite ($< 5\%$).
397.8	398.9	1.1	Sphalerite-Rich Massive Sulfide Silica + sericite gangue makes-up 20-25% of the interval. Mottled gangue and pyrite zones contain bands of sphalerite (15-20% total interval). Chalcopyrite (5-10%) locally rims silica + sericite gangue blebs. More massive zones within the interval contain sphalerite and fine-grained pyrite banding.
		20cm? lost core at 397.8	

398.9 399.8 0.9

Pyrite + Sphalerite-Rich Massive Sulfide

Very fine-grained massive pyrite with sinuous appearing sphalerite bands. At 399m a 3cm wide silica + sericite + carbonate mass contains fine-grained masses of chalcopyrite. Banded, recrystallized masses of pyrite occur within a very fine-grained pyrite matrix. Carbonate veinlets fill fractures cutting the dominant fabric.

399.8 401.0 1.2

Pyrite-Rich Massive Sulfide

Predominantly fine-grained to very fine-grained pyrite matrix. However the first 10cm are mottled by chalcopyrite masses (10%) and also contain scattered dark chlorite blebs and a 1 x 1cm quartz-feldspar fragment. Thin mm scale sphalerite bands are common within the interval. Sphalerite is 15-20%. Chalcopyrite occurs on the edges of silica + sericite gangue blebs. Chalcopyrite is 3-5%. Weak to moderate pyrrhotite.

401.0 401.58 0.58

Chalcopyrite + Pyrrhotite-Rich Massive Sulfide

Chalcopyrite occurs as swirling, networked textured, interconnected masses with fine-grained pyrrhotite. Pyrrhotite also occurs as massive banding. Chalcopyrite is 30 - 35% of the interval. Silica + sericite gangue blebs are scattered through the interval. The lower contact is faulted across the foliation.

401.58 404.5 3.03

Footwall Chlorite + Sericite + Quartz + Feldspar Schist

The well-foliated schist is banded dark green to grey. Green chlorite + sericite bands are interlayered with lensoidal/sinuuous quartzo-feldspathic bands. The latter are either lapilli or transposed primary volcaniclastic beds. Scattered chalcopyrite stringers are associated with the quartzo-feldspathic lenses. Chalcopyrite is also finely disseminated as is pyrite and pyrrhotite.

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE LAKE	GROUND ELEV. 1505.2 m
HOLE NO. WV96-40.	BEARING Ø° GRID NORTH
LOCATION 17071.5 N 16550.2 E	DIP - 85.0
LOGGED BY [Signature]	TOTAL LENGTH 457.2 m
DATE July 11, - July 24	HORIZONTAL PROJECT
CONTRACTOR Caron	VERTICAL PROJECT
CORE SIZE HQ to 99 feet / NQ to 1505.2 ft. (457.2m)	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
DATE STARTED July 10, 1996	
DATE COMPLETED July 23, 1996	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DIP TESTS	
COMMENTS Massive Sulfide 390.26 - 392.6 4 feet HW casing	LEGEND

DEPTH (m)	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
				Ser	chl	CO ₂	Sil	PO	Other
0-10.4	RHAE		Rhyolite Breccia/Frag supported w/ Argillite Matrix - fine to dk grey Siliceous Breccia bands on fragments w/ Argillaceous Matrix. Shear textures vary from 'jigsaw' Qt Frag to 'elongate' Frags smy a banded look - Argillite matrix is minor - Argillite matrix increases w depth & Frag/Brex appear as lapill. - These inter grade out w depth.						
			Pyrite occurs in disc. min scale bands along folia & as oblong mass along fracture cutting the Coltration						
10.4-10.4			Felsic Fragments/Breccia grade out						
			Siliceous Argillite - grey-dark grey - locally thin grey areas look like elongated Frag or transposed siltier beds						
10.4-13.2	DHLC		~ 0.5m of recovered core Possible Fault						
13.1-Qt mass									
13.2-22			Py occurs as flattened mass on the Coltration & as veins cutting the Coltration						
14.2-Qtz Mass									
15.6-15.7			Qtz mass roughly intruding along the Folia						
16.2-16.4			Qtz mass						
16.6-16.8			Broken & Coarsed Argillite - STFL						
			Grey to dark grey silty Argillite thin to thin striped grey silty Breccia and the Argillite - and clear texture - assume beds - elongate mass (transposed beds?) - (patched fragments?) - Shear Banding - Pyrite occurs locally as elongate masses along folia - Coz Brecc at 2x to Coltration are folded						
22-	RHAL								
22-24.5			Strongly Broken phyllite + silica rich interval where pred phyllite core is broken						

RHAE

DHLC

ASL

LSL

RHAL

STFL

DEPTH (m)	CONV V.V.V.S	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pirrite	% Spinel
					Ser	chl	CO ₂	Si	Fe		
				41.8-53.5 ARMS							
42				46-52.2 Predominantly Black Argillite with streaks of gray or streaks of pyrite along the foliation. Pirrite also occurs in vales cutting							
48				43.9-48.8 - Ground sericite altered ground Siliceous Argillite							
49				@ 49. Carbonate Bands, layers or altered also Feldspathic lapilli - occur more commonly with increasing depth							
50				52.2 Qtz unmy							
53				53.5-64.4 RNAL							
54				54-54.4 Carbonate altered to siliceous horizons in the Argillite							
55				- Predominantly gray-dark gray finely speckled Qtz-Feldspathic component which locally appear as elongate lapilli or as 3-4cm almost massive bands separated by 1cm bands of black Argillite							
56				Pirrite occurs along shear folia or as vales in							
57				59.4 Carbonate Brittle Creamy							
58				Locally the gray Qtz-Feldspathic Bands are variably altered to carbonate							
59				Interned. Because increasingly siliceous & a decreasing Argillite component							
60				64.4-70.6 RNFS							
61				Broken greenish gray aphanitic - siliceous Interned - weakly foliated - Sericite form on folia							
62				- Pirrite occurs as fine green masses along folia							
63				- trace Pyrrhotite masses							
64				- Upper contact is gradational							
65											
66											
67											
68											
69											

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					STRUCTURE INTENSITY	% VEGETATION
					Ser	Chl	CO ₃	Si	Fe		
86.5-94.5	RHTT			RHTT							
93	RHTT			at 92.7 Pale grey green Ser-chl schist is inter bedded w/ Bright green schist (Bn mica?)							
94	STFL			94-94.5 - On Scale Right lateral ft. at 93.5							
95	ARMS			95-96.5 ARMS - contact w/ AEGT is Structural. "Inverted" & not well. Contacted interval is drk grey-bk to tuffaceous & silty appear							
96	ARMS			- local lenses of possible Capilli							
97	STFL			96.5-100 STFL - Abundant argillitic gouge & broken & busted fine chips							
98	STFL			- Minimum lost core - good Recovery in Fault							
99	STFL										
100	ARMS			100-101 drk grey-black Argillite & white-grey streak - fragments II to the C.A.							
101	ARMS			101-104.2 STFL -							
102	STFL			Broken & gouged argillite							
103	STFL										
104	STFL										
105	ARMS			104.7-109.5 ARMF							
106	ARMF			105.8 - tear ft along kink fold							
107	ARMF			Argillite occur as flattened masses on the foliation							
108	ARMF			- interval has a big tuffaceous 100k-grey-drk grey w/ lesser blk Argillite component							
109	ARMF			108.9 - Qtz + CO ₃ as cutting foliation at 45°							
110	STFL			109-110 STFL							
111	ARMF			110-111.2 ARMF - Pinky grey tuffaceous Argillite appearing Sediments							
112	ARMF			111.2-122.7 AEGT -							
113	AEGT			fine-grained green tuffaceous sharp contact along the foliation interlayered w/ blk argillite & grey-drk grey tuffaceous-silty Argillite							
114	AEGT										
115	AEGT			114.9-116.5 Green tuffaceous - tuffaceous							

DEPTH (m)	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRY/INT/GR/BLK	% V. SP. FINE
				Ser	chl	CO ₂	Si	Fe		
253.4-256.9	STFL		STFL - much less core almost all to Bk is present my gauge 21' recovered							
256.9-257.9	EXMT		EXMT - Banded sph. to Silica (Chl?) later mainly in folia							
257.9-262.1	EXMT		EXMT - Banded + Buckshot magnetite is gradational with the matrix EXMT zoned - Thin chlorite beds (Chl) or mottled Chl + magnetite interbedded with magnetite - Chl is common in fractures - at 261.2 (15 cm) interval of chert + 3cm interval at 261.4 - Bands of semi massive sphal < 0.5cm - Pyrite occurs as fine filigree mottled in silica + CO ₂ groundmass							
262.1-262.1			262.1-262.1 - Banded CO ₂ + Silica horizon with to no magnetite - 262.1-262.3 Chl + Silica + mt + Sphal Banded Fe Mn							
262.1-268.5	RIKV		RIKV - predominantly sph. to py-dk grey chert - w/ calcified locally w/ strong greenish tinge (Chl + Si) Some areas are more with calcified (less siliceous) Scattered pink, gray textured CO ₂ rich interbeds - Scattered gauge zone occur							
268.5-268.7	EXMT		EXMT - Pyrite occurs as in fine filigree v.l. 4. NOTE - Fracture set 2 to 1/2 cm diameter - Polished							
268.7-270.5	STFL		STFL - Orange + Shale texture							
270.5-271.7	EXMT		EXMT - mottled white gray in Py + Chl areas silty/mottled drk. pink by products Fe Mn							
271.7-273	EXMT		EXMT - Bk + dr. - magnetite bands in interkeyed w/ drk green chl band - Py dashes after folia in the mt bands							
273-273.4	EXMT		EXMT - Phly m. ky with dr. in mt + Chl + Sphal							
273.4-274.6	STFL		STFL - dr. in dr. grey ground sil dr							
274.6-274.5	STFL		STFL - Ground RIFTS pink + brown in dr							
274.5-275	STFL		STFL - dr. grey fine dr. gauge - this could be crossing with contacts a bit Bk + the fall							

DEPTH (m)	CONC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					Ser	Chl	Car	Sil	Po	INTENSITY	% Sphal
232				234.6-238.5 - gauge is pale green-grey to grey to brown flaky, gln mag gauge + minor pyrite							
238				- gauge base Sericite schist Breccia + chn breccia							
239				in Stamp chn + Amphibole rich gauge base							
280				239.5-286.6 - ARMS gauge + ground + broken flaky chips							
281				scattered fragments of strom pyrite							
281				- pyrite is used + along the folia w flattened masses							
283				- gauge demonstrates the interval							
285											
286				285.6-287.6 ARMS - strongly foliated, thin							
287				"whisker" like stamped - grey to dark grey Amphibole							
288				- Py occurs on folia in voids + chl							
288				287.6-288.2 STFL - Coarse broken BIK very chips flattened Py masses on folia							
289				288.2-292.7 ARMS - dark grey to BIK amphibole							
290				- locally aphanitic grey-dark grey silica bands are inter-layered							
291				in interval							
292				- Pyrite is up to 5% locally occurring as thin flattened needles along the folia with pred. as variety							
292				- Po trace							
293				292.7-298.8 STFL - ground + lost RHA core - Recovery							
294				- Ground chips of Siliceous grey-green Amphibole RHA							
295											
296											
297				296.9-300.5 RHA - Pred grey-green Aph							
298				Siliceous bands (2.2cm) - inter-layered + thin Ser/Chl (Aph?) bands (< 0.3cm)							

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN CUT.
					Sr	Chl	CO ₂	Sil	Po		
				364.9-377 ARTF							
368				interbedded argillite + tuffaceous							
369				sediments are strongly sheared & probably transposed giving the core a lensoidal texture							
370				of transposed beds.							
371				- Chl is common as foliation in greenish argillite							
372				- Thin CO ₂ bands ± 0.5 are common in the section							
373				- Some layers below are sheared, broken & arg breccia, fine in a CO ₂ matrix (372.5)							
374				- Pyrite occurs as thin inclusions & disseminated among the sediments							
375				- At 375 Argillite content increases							
376				inter-tuffaceous bands appear tightly folded & transposed - less alteration of str. bedded bands (Sil + Tuff?) increasing with depth							
377				377-384.6 ARGR							
378				Prod. dark gray - blk argillite							
379				with thin white stripes of variably CO ₂ alt. str. bedded beds							
380				- str. bedded bands (mm thick) are asymmetrically folded & transposed with the AP ± to the line							
381				axis ± to the line							
382				Dominant foliation							
383				- Pyrite is commonly associated with the str. bedded CO ₂ bands as							
384				crystals embedded in the matrix							
385				v.l.g. rather than pyrite is also							
386				dis 50% & occurs as variably sized lenses							
387				384.6-385.6 STPL - Compact "gauge" & shaly							
388				broken chips of argillite - arg breccia							
389				387.6-390.2 ARGR - increasing lenses - some							
390				asym + thin parting of str. bedded CO ₂							
391				contain pyrite to semi-massive sulfide							
392				382.3-383.5 CO ₂ matrix - Cy gray tch. dis 4% Py							
393				- Bands + lenses of CO ₂ increase toward the massive sulfide at							
394				base < 0.5cm semi-massive Py bands							
395				- Assym lenses & up to 10cm intervals of arg breccia - CO ₂ matrix							

PAGE	OF	PROJECT:					HOLE NO.		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
Zn Rich Massive Sulfide		390.26	390.71	1.04	105207				
Pyrite - Sphal Anhydrous massive sulf		390.71	390.76	0.06	105208				
Semi massive Pyrite in Ser Schist		390.76	391.1	0.34	105209				
Semi massive Pyrite in Ser Schist		391.1	391.7	0.6	105210				
Zn + Pb massive Sulfide		391.7	391.8	0.1	105211				
Pyritized / cp massive Sulfide		391.8	392.6	0.8	105212				
Fw chl Ser Schist		392.6	393.5	0.9	105159				
Fw chl Ser Schist		393.5	395.3	1.8	105160				
Fw chl Ser Schist		395.3	397.3	2.0	105161				
Fw chl Ser Schist		397.3	399.6	2.3	105162				
Fw chl Ser Schist		399.6	402.5	2.9	105163				
Fw chl Ser Schist		402.5	404.5	2.0	105164				
Fw chl Ser Schist		404.5	406.3	1.8	105165				
Fw chl Ser Schist		406.3	408.5	2.2	105166				
Fw chl Ser Schist		408.5	410.9	2.4	105167				
Fw chl Ser Schist		410.9	412.1	1.2	105168				
Fw chl Ser Schist		412.1	414.1	2.0	105169				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURED INTERFACIAL	% Sphal
					Ser	CH	CO ₃	Sil	Po		
385.6 - 390.2				ARC - chert is sharp along the Colm & some							
390.26 - 390.3				SEAMS - 390.2-390.3 70-90% mass. sph. where							
390.5	SEMS			at chert & laminated (Chert) (1cm) & disc py sph dotted & black chert pyrite: 390.3-390.42 - 14 dm							
391	SEMS			in bands of crumpled chert & iron speckled to black chert pyrite: 390.2-390.28 - 30-40% sphal in chert lenses &							
391.5	SEMS			pyrite: 390.28-391.0 chert pyrite in chert & sphal bands. the bands contain the ore pyrite. Black chert - massive							
392	SEMS			pyrite: 391.0-391.2 - 30-40% sphal in chert lenses & pyrite: 391.2-391.4 - 30-40% sphal in chert lenses &							
392.5	SEMS			pyrite: 391.4-391.6 - 30-40% sphal in chert lenses & pyrite: 391.6-391.8 - 30-40% sphal in chert lenses &							
393				pyrite: 391.8-391.9 - 30-40% sphal in chert lenses & pyrite: 391.9-392.0 - 30-40% sphal in chert lenses &							
393.5				pyrite: 392.0-392.1 - 30-40% sphal in chert lenses & pyrite: 392.1-392.2 - 30-40% sphal in chert lenses &							
394				pyrite: 392.2-392.3 - 30-40% sphal in chert lenses & pyrite: 392.3-392.4 - 30-40% sphal in chert lenses &							
395				pyrite: 392.4-392.5 - 30-40% sphal in chert lenses & pyrite: 392.5-392.6 - 30-40% sphal in chert lenses &							
396	RHST			pyrite: 392.6-392.7 - 30-40% sphal in chert lenses & pyrite: 392.7-392.8 - 30-40% sphal in chert lenses &							
397				pyrite: 392.8-392.9 - 30-40% sphal in chert lenses & pyrite: 392.9-393.0 - 30-40% sphal in chert lenses &							
398				pyrite: 393.0-393.1 - 30-40% sphal in chert lenses & pyrite: 393.1-393.2 - 30-40% sphal in chert lenses &							
399				pyrite: 393.2-393.3 - 30-40% sphal in chert lenses & pyrite: 393.3-393.4 - 30-40% sphal in chert lenses &							
400				pyrite: 393.4-393.5 - 30-40% sphal in chert lenses & pyrite: 393.5-393.6 - 30-40% sphal in chert lenses &							
401				pyrite: 393.6-393.7 - 30-40% sphal in chert lenses & pyrite: 393.7-393.8 - 30-40% sphal in chert lenses &							
402				pyrite: 393.8-393.9 - 30-40% sphal in chert lenses & pyrite: 393.9-394.0 - 30-40% sphal in chert lenses &							
403				pyrite: 394.0-394.1 - 30-40% sphal in chert lenses & pyrite: 394.1-394.2 - 30-40% sphal in chert lenses &							
404				pyrite: 394.2-394.3 - 30-40% sphal in chert lenses & pyrite: 394.3-394.4 - 30-40% sphal in chert lenses &							
405				pyrite: 394.4-394.5 - 30-40% sphal in chert lenses & pyrite: 394.5-394.6 - 30-40% sphal in chert lenses &							
406				pyrite: 394.6-394.7 - 30-40% sphal in chert lenses & pyrite: 394.7-394.8 - 30-40% sphal in chert lenses &							
407				pyrite: 394.8-394.9 - 30-40% sphal in chert lenses & pyrite: 394.9-395.0 - 30-40% sphal in chert lenses &							
408				pyrite: 395.0-395.1 - 30-40% sphal in chert lenses & pyrite: 395.1-395.2 - 30-40% sphal in chert lenses &							
409				pyrite: 395.2-395.3 - 30-40% sphal in chert lenses & pyrite: 395.3-395.4 - 30-40% sphal in chert lenses &							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		390.26	390.4		105207				
		390.4	390.76		105208				
		390.76	391.1		105209				
		391.1	391.7		105210				
		391.7	391.8		105211				
		391.8	392.6		105212				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphal.	
					Ser	chl	Co ₃	Sil	Fe			
410				410.5-420.6 R.HST. The vertical of sericite schist (sericite unit) is variable.								
411				- grey to dark grey well foliated								
412				sublacunar appearing sericite +								
413				Pyrite + chl - 408.5 - 413.6								
414				is relatively unbedded, locally								
415				dendritic chl + Fe streaks								
416				- more "fibrous" occur locally - trace of Cr								
417				413.8-413.9 Ser Py								
418				STFL - 413.9-417 - Scattered fine amount								
419				chl + Co ₃ + some massive bits								
420				of Pyrite - also scattered amount of Sphal								
421				416.5 - Body of star field + Co ₃ + Ser + chl								
422				gradually increase - color of core is								
423				becoming more greenish grey - sh. field								
424				bands are discontinuous or possibly								
425				reg. like lapilli - with depth the								
426				Siliceous bands are due to continuous								
427				417.3-417.8 - Chl Ser Schist ± sh + Co ₃								
428				near to dark grey green - by chl + Pyrite + Fe								
429				420.8-421.2 STFL Sphalite zone								
430				at 417.9 the schist becomes								
431				v. bedded (part) - dark grey green								
432				the dense schist color								
433				at 423.3 schist becoming less								
434				green + more grey + less bedded - strong								
435				fine-dis Pyrite ± Cr - possible fine								
436				sh. zone								
437				- end of the interval has								
438				decreasing sericite + py to dark								
439				grey color								
440				424.2-425.9 - Look like sericite								
441				sh. grey full - sh. "eyes" are								
442				subrounded to elongate elongate								
443				beds								
444				- at 427 sh + ch + Co ₃ + Fe occur								
445				near the Ser schist - py is dark								
446				with scattered mass - 430.4-430.6 - trace								
447				of Cr								
448				streaked Ser schist - dark and light lines								
449				430.6-431.5 STFL - Fault zone in the lower								
450				contact of sericite - sublacunar								
451				argillite - scattered - 10cm zone								

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphal	CPY	
					Sar	Chl	Ser	Si1	Pc				
433	STPL			430.5-436.5 STPL - Old used fault zone - with Cal Ser-schist + cor schists - some suggestion of argillite - fault contact may be through what was a original gradational contact between Ser schist + tuffaceous argillite - possible lapilli or brecciated beds at silt-lens buff - Pirochlo									
434				436.5-437.4 ARTF - grey to dark grey tuff argillite									
435				437.5-438.6 STPL - Arg + tuff zone + silt + clay section of sericite laminated gouge. - 437.2 - 438.3									
436				438.5-439.5 ARTF - Strong Col + the laminated "layer striped" block + grey tuff argillite - graphitic / Carbonaceous argillite									
437	ARTF			439.5-440.5 STPL - thin bands of tuffaceous argillite / siltstone that are variably altered to carbonate - minor silt + clay lenses - core is competent but early fault into "poke chips" Pyrite is finely dis.									
438				440.5-441.5 ARTF - thin bands of tuffaceous argillite / siltstone that are variably altered to carbonate - minor silt + clay lenses - core is competent but early fault into "poke chips" Pyrite is finely dis.									
439				441.5-442.5 ARTF - thin bands of tuffaceous argillite / siltstone that are variably altered to carbonate - minor silt + clay lenses - core is competent but early fault into "poke chips" Pyrite is finely dis.									
440	STPL			442.5-443.7 STPL - First bit of recovery is broken argillite in chips 6.2cm									
441				443.7-444.7 STPL - bit of the mineral in strong grey gouge - low dis of locally visible silt + clay gouge									
442				444.7-445.3 ARTF - Pale green to dark grey Ser + cor argillite Fr dis by									
443				445.3-452.6 STPL - dark grey to black fault zone - Argillite chip locally chl + ser chips									
444	ARTF			452-452.6 ARTF - tuffaceous grey argillite - 2-3% py along bedding + dis									
445				452.6-455 STPL - grey to dark grey chips + some carbonate.									
446	STPL			455-455.6 STPL - grey to dark grey chips + some carbonate.									
447				455.6-456.2 STPL - grey to dark grey chips + some carbonate.									
448	STPL			456.2-456.8 STPL - grey to dark grey chips + some carbonate.									
449				456.8-457.4 STPL - grey to dark grey chips + some carbonate.									
450	ARTF			457.4-458.0 ARTF - grey to dark grey chips + some carbonate.									
451				458.0-458.6 ARTF - grey to dark grey chips + some carbonate.									
452	ARTF			458.6-459.2 ARTF - grey to dark grey chips + some carbonate.									
453				459.2-459.8 ARTF - grey to dark grey chips + some carbonate.									
454	STPL			459.8-460.4 STPL - grey to dark grey chips + some carbonate.									
455				460.4-461.0 STPL - grey to dark grey chips + some carbonate.									

HARLAN

Diamond Drill Hole WV9640

Summary of Log Intercept

390.26-392.6 Meters

Avg. Core Angle 58.8°

True thickness
= 2.21

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
387.5	390.2	3.7	Hanging Wall Argillite Well-foliated, dark grey to black, graphitic argillite. Thin mm scale, grey lenses of carbonate altered tuffaceous argillite or possibly carbonate exhalative "tiger-stripe" the interval. Carbonate bands increase toward the massive sulfide horizon. Pyrite is fine-grained and disseminated in the black argillite and almost semi-massive in the carbonate bands. Hanging wall contact is sharp along the foliation. However the contact may be faulted. Core is lost in the hanging wall argillite above the contact.
390.2	390.3	0.1	Sphalerite-Rich Massive Sulfide Approximately 50% massive sphalerite with lenses of grey chert and rounded carbonate blebs. The gangue contains disseminated pyrite. Coarser-grained "buckshot" pyrite speckles the massive sphalerite.
390.3	390.63	0.33	Pyrite-Rich Massive Sulfide Fine-grained pyrite predominates the interval. Scattered < 1cm orangy red sphalerite bands are speckled with coarser-grained "buckshot" pyrite.
390.63	390.78	0.15	Sphalerite-Rich Massive Sulfide Semi-massive sphalerite (30-40%) with silica +sericite + carbonate lenses are speckled with coarser-grained "buckshot" pyrite. The "buckshot" pyrite are masses of subhedral pyrite grains/crystals.
390.78	391.0	0.22	Pyrite + Sphalerite Massive Sulfide Interval of banded, medium to coarse-grained pyrite layered with <=/ 1cm sphalerite bands. The sphalerite bands are speckled with "buckshot" pyrite. Gangue lenses increase toward the bottom of the interval. Lenses contain chlorite + carbonate + quartz + sericite.
391.0	391.48	0.48	Semi-Massive Pyrite Semi-massive to fine-grained pyrite decreases with depth in the interval. 1-2mm carbonated bands are interlayered with sericite + chlorite bands. Dark red sphalerite mm scale bands are scattered within the interval and these contain buckshot pyrite. Disseminated pyrrhotite.
391.48	391.7	0.22	Pyrite + Sericite + Carbonate Schist Pyrite is disseminated and up to 3% of the interval. 1-2cm carbonate bands are interlayered with thinner sericite bands and minor, mm scale sphalerite + pyrite bands. Chalcopyrite is < 1% and occurs with pyrite and pyrrhotite as nebulous masses. Contact with the massive sulfide is sharp and along the foliation.

391.7 391.9 0.2

Pyrrhotite-Rich Massive Sulfide

Banded pyrrhotite is interbanded with fine-grained pyrite, chalcopyrite and minor sphalerite. With depth the pyrite bands within the interval contain increasing chalcopyrite. An aphanitic silica band occurs at the upper contact. Carbonate veinlets fill late fractures parallel to the core axis.

391.9 392.6 0.5

Mottled Chalcopyrite-Rich Massive Sulfide

Chalcopyrite and pyrite are interbanded with pyrrhotite. The mottled texture is due to quartz + carbonate + sericite gangue blebs. Dark green, subrounded to subangular chlorite masses occur near the lower contact. Note the low angle (35°) of pyrrhotite banding to the core axis near the lower contact. Lower contact is irregular and appears faulted.

392.6 4015 8.9

Footwall Pyrite + Sericite + Quartz + Feldspar Schist



The well-foliated schist is banded green to grey. Sericite +/- chlorite bands are interlayered with lensoidal/sinuuous quartzo-feldspathic bands. Chalcopyrite is rare. A sliver of chalcopyrite (3cm) is faulted into the footwall. Pyrrhotite is disseminated and locally occurs as elongate masses along the foliation.

0085 0

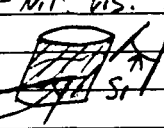
**1996 SUMMARY REPORT ON THE
FOOT 1 - 20, 37 - 80, 83 - 94, 180 - 188, 215 - 231,
11A - 12A, KINK 3, LOW 13 - 14**

**DRILL CROSS SECTIONS
VOLUME 2**

DRILL LOG

PROJECT <i>Wolverine Stratigraphic Drill Program</i>	GROUND ELEV. <i>1710.0 m</i>
HOLE NO. <i>WV-96-41</i>	BEARING <i>Grid South - 180°</i>
LOCATION <i>FISHER L 8800 E / B/L 18750 N</i>	DIP <i>-80°</i>
	TOTAL LENGTH <i>539.5 m</i>
LOGGED BY <i>Andrew Turner</i>	HORIZONTAL PROJECT
DATE <i>July 12/96</i>	VERTICAL PROJECT
CONTRACTOR <i>F. BOISVENA DIAMOND DRILLING</i>	ALTERATION SCALE 
CORE SIZE <i>NQ II / BOTW</i>	TOTAL SULPHIDE SCALE 
DATE STARTED <i>July 11/96</i>	
DATE COMPLETED	
DIP TESTS <i>ACID WITH</i> ① 100' - 30.5m - 78° ② 80' - - 76.5° ③ 150' - - Broken (~72°)	LEGEND
COMMENTS <i>- collared to examine stratigraphic continuity from DDH #6 + #7, and to test a possible southward extension of mineralization observed in WV-95-06.</i>	

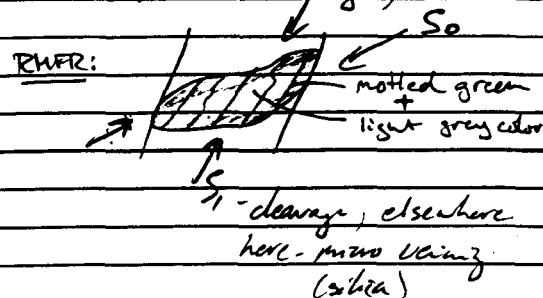
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0				0-3.65m CASING.							
1				(Matrix Composition) - dark grey - grey-green Argillaceous light green - grey Sericite							
3.65m to 76.75m				RHFR - Badly weathered, Fragmental to banded Aphanic Rhyolite - Few "fresh" sections exhibit light grey to greenish grey Rhy fragments (flattened to banded?) with a dark grey to greenish-grey matrix (tot.) - Rhy. Fragments are very fine grd, aphanic (occasional suggestion of microcline) and between 1-7cm thick. (Ser/Arg) - Matrix is crystalline, often altered to pale green sericite, and best exhibits a clayey. @ a further 20-30' to 150m; generally comprise $\leq 10\%$ of rock - Core is badly weathered to ~65-70m - Numerous badly weathered + crushed / gouged Fault zones: (Arg/Ser) (5.0-7.5m, 11.25-11.6m, 18.0-19.9m, 21.0-24.5m, 29.9m, 31.25-33.25m, 35.6-36.5m, 38.5m-40.0m, 41.5m- 42.0m, 57.8m-60.3m)							
5				Faulted to badly fractured							
6											
7											
8											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											



note: - In upper 120m, several large Rhy fragments are more strongly altered (altered) than those surrounding them, resulting in saccarose texture; friable.
- other fragments show blocky texture from onset of such alt'n.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
46											
46.20 - 46.40	28			(46.20 - 46.40 m) Dark grey-green, chlorite (?), Matrix-Rich sec'in in Aphanitic Fragmented Rhy. (also - 47.35m - 47.45m). upto 30-40% matrix.							
47	35										
49				Rhyolite - badly weathered, fragmented, Aphanitic Rhy - cont'd							
50											
51				(Ser)							
52											
53											
54											
55											
56				(Ser > An)							
57											
58											
59											
60											
61											
62											
63				(Ser/An)							
64											
65											
66											
67											
68											
69											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
69												
70				RHFR - with'd, Fragmental, Aphane Rhy - cont'd (Ser/Ag)								
71												
72												
73												
74												
75												
76												
77				To 75m to 108.90m RHFR - Sericite Altd / Silicified, Fragmental-banded Aphane Rhy								
78				- Abundant with'd dark grey brown (not orange rusty with'd?) sections								
79				- same as above, however, distinctive pale green color of both matrix and fragments (mottled pale green / grey).								
80				- fr-1% det, 'blobby' py/po (magnetic susceptibility only 0.2)								
81				- Rhy appears to be silicified in places with micro fractures / vein- ing evident in fragments, more or less // to cleavage.								
82												
83												
84												
85												
86	86.1											
87	88.55											
88												
89												
90												
91												
92												



85-Po →

88 badly with'd

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
92				RHFR - Sericite Altd (7- withrd)							
93				Apherr Fragmented Rhy - cont'd							
94	94.1	QUZ	75								
95	94.2										
96											
97											
98	98.25										
99											
100			60 (SER)								
101											
102											
103											
104											
105			60 (SER)								
106											
107											
108											
109	108.9m	QUZ	60	108.9m to 111.1m ARS1 - Thinly banded, dk gr-bls, Siliceous Argillite							
110				- thinly banded (<1cm), contorted (sheared), v. fm. grad. dk. grey. siliceous to black argillite (7% Graphite) bands.							
111											
112				- QUZ's. (108.9-109.1m + 110.2-110.35m)							
113				- tr-nil vs sulphides.							
114				111.1m to 112.0m RFR - Sericite, Pale greenish Grey, Fragmented, Apherr Rhy							
115				- as above (76.5m-108.9m) sharp contacts							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
115				112.0m to 115.0m ARS1 - dk. grey - blk, Siliceous Argillite -								
116				- as above (108.9m - 111.0m)								
117	117.3			- minor thicker (5-6cm), lighter grey. RHM - argillaceous Rhy bands								
118				- grading into Grey. Argillaceous Rhy below								
120				115.0m to 117.3m RHM - Banded, Aphanitic, Argillaceous Rhyolite								
121				- 70% aphanitic, aphanitic, grey to dk. green, 2-5cm Rhy bands; and 30-40%, 5-2cm, v. fine gr. dk. grey - black ARS1								
122				- Argillaceous Rhyolite -								
123				- tr vs sulphides								
125	125.50			117.3m to 123.5m RHM - Aphanitic, Fragmental Rhy. (very light green)								
126				- very similar to previously described sections, however, - matrix poor -								
127				- < 10%, 1-3mm, pale grey-green sericite bands, separating 5-10cm, v. light grey								
128				aphanitic, aphanitic, Rhy bands								
129				- tr vs sulphides, minor FeOx.								
130	130.90			123.5m to 130.9m RHM - Banded, Aphanitic, Argillaceous Rhyolite								
131				- as above (115.0-117.3m)								
132				- Fewer, dark grey - black, ARS1 inter-bands.								
133				130.9m to 143.25m RHM - Aphanitic, Fragmental Rhyolite (lt. grey)								
134				- as above (117.3-123.5m)								
135				- distinctive PINK discoloration (FeOx?) (MnOx?)								
136												
137												
138												

(PINK Discoloration)

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		115.0	117.3	2.3	106934				
		117.3	119.3	2.0	106935				
		121.5	123.5	2.0	106936				
		123.5	125.0	1.5	106937				
		125.0	127.0	2.0	106938				
		127.0	129.0	2.0	106939				
		129.0	131.9	2.9	106940				
		130.9	133.0	2.1	106941				
		133.0	135.0	2.0	106942				
		137.0	138.5	1.5	106943				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
138											
139											
140											
141											
142											
143											
144											
145											
146											
147											
148											
149											
150											
151											
152											
153											
154											
155											
156											
157											
158											
159											
160											
161											

139
140
lovingly
FE-DM

143
144
145
here's where the Fan starts

146
147
148
CARB BANDS
MT

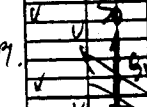
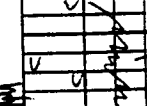
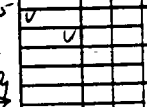
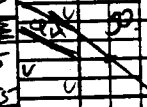
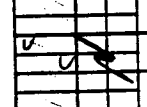
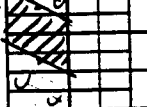
150
MT

154
155
WITHIN

156
WITHIN

157
SP.P.

159
WITHIN



143.25m to 145.5m
RHAR - Thinly inter-banded. Argillite and Aphanic Phylite @ minor thin carbonate bands.
~40% laminated - sheared, var grey to blk, argillite; and ~50% 2-6cm sheared, med. grey, aphanic - aphanic Phyl. bands
- <10% success, creamy yellow, ~1cm carbonate (ool/sid)
- 1-1% py
- minor carbonate alt- / Phyl. beds.

145.5m to 176.6m
COMPLEX SILICA-CARB-MT-IRAP? EXHALATIVE INTERVAL.
- 145.5 to 147.7m: RHST - thick band, sheared, light greenish-grey, sericitic Rhysitic Tuff (4- carb alt-)
- 147.7m to 148.3m: light, greenish-grey + black, fine grained, (py) MT 4-carb Fe-Fm, with up to 50%, fully x-lin MT, and RHST
- 148.3 to 149.4m: RHST, as above, to dz py
- 149.4m to 151.55m: top 1m is a mix of RHST + carbonate bands @ dz MT + py, lower section is MT-CARB Fe-Fm. (as above) @ 2-3% coarse dz py.
- 151.55m to 163.5m: inter-banded, light greenish-grey sericitic Phylite Tuff (RHST) and Carbonate Exhalative bands (Mg/Fe CO3 ?); thinly banded, contorted - folded, 10-20%, v. pale cream whed, massive, carb. bands

PAGE	OF	PROJECT:					HOLE NO.		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		161.35	163.5	2.15	171007				
		162.5	165.5	2.0	171008				
		165.5	166.0	0.5	171009				
		166.0	167.4	1.4	171010				
		167.4	169.4	2.0	171011				
		169.4	171.45	2.05	171012				
		171.45	172.85	1.40	171013				
		172.85	174.5	1.65	171014				
		174.5	176.6	2.1	171015				
		176.6	178.4	1.8	171016				
		178.4	179.65	1.25	171017				
		179.65	181.5	1.85	171018				
		181.5	182.9	1.4	171019				
		182.9	184.4	1.5	171020				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
187.30m to 187.80m				EXCA - Pale creamy Carbonate Exhalite (Mt/Py-pm)								
187.80m to 191.9m				- sharp contacts define a 5cm band of light grey to pale cream colored, sucrosic, thinly banded (1-3cm), Carbonate (1/2 silice/banded (?) exhalite. - tr ds py, tr crsly ds po, 1-2% ds Mt.								
191.9m to 195.15m				RHFS - Massive, light grey Rhyolite (main sericite) - light grey, massive (foliated, but not banded), aphanic, aphanitic, Rhy; (main sericite); sharp contacts.								
195.15m to 195.15m				ARS1 - dark grey, banded Sericaceous Argillite - grey to r-dk. grey, thinly banded (1.5-2cm), contorted, aphanic, v. fr. gr. v. hard-siliceous - borderlike "Siliceous Arg" or "Arg. Uaceous Rhy" (?) - tr ds py, sph (?)								
195.15m to 200.5m				RHAT - light greenish grey (sericite) Rhyolite to Frey member (Banded) - 70-80%, 7-5cm, light grey, aphanic, Rhy Lepidi - Frey member - 20-25% sericite matrix - banded - foliated - 2-5% patchy + ds Felsy + thin py								
200.5m to 211.0m				ARS1 - dk. grey - black, thinly banded, Sericaceous Argillite - as above (191.9-195.15m) - Sericaceous Argillite to Arg. Uaceous Rhy. - QU = 205.9 - 206.1m - tr ds py.								

Minor Sericite alt.

tr sph

QU

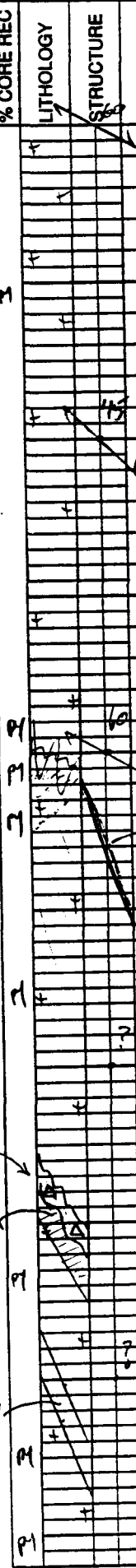
250

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
test ①		230.0	231.5	1.5	171047				
		231.5	233.0	1.5	171048				
		233.1	233.25	0.15	171049				
		233.25	235.55	2.3	171050				
		235.55	235.90	0.35	171051				
		235.9	239.75	1.85	171052				
		237.75	239.5	1.75	171053				
		239.5	241.0	1.5	171054				
		241.0	243.4	2.4	171055				
		243.4	247.0	0.6	121056				
		247.0	247.0	0.0	171057				
		247.0	248.5	1.5	171058				
		248.5	250.0	1.5	171059				
		250.0	251.65	1.65	171060				
		251.65	252.8	1.15	171061				
		252.8	253.45	0.65	171062				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		253.45	254.15	0.7	171063				
		254.15	255.45	1.30	171064				
		255.45	256.25	0.8	171065				
		256.25	258.0	1.75	171066				
		258.0	259.5	1.5	171067				
		259.5	261.0	1.5	171068				
		261.0	262.5	1.5	171069				
		262.5	264.0	1.5	171070				
		264.0	265.5	1.5	171071				
		265.5	267.0	1.5	171072				
		267.0	268.5	1.5	171073				
		268.5	270.0	1.5	171074				
		270.0	271.5	1.5	171075				
		271.5	273.0	1.5	171076				
		273.0	274.5	1.5	171077				
		274.5	276.0	1.5	171078				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		276.0	277.5	1.5	171079				
		277.5	279.5	2.0	171080				
		279.5	281.0	1.5	171081				
		281.0	283.0	2.0	171082				
		283.0	284.25	1.25	171083				
		284.25	286.75	2.50	171084				
		286.75	287.75	1.0	171085				
		287.75	289.5	1.75	171086				
		289.5	292.6	3.1	171087				
		292.6	294.15	1.55	171088				
		294.15	296.0	1.85	171089				
		296.0	298.0	2.0	171090				
		298.0	298.4	0.4	171091				
		298.4	200.1	1.7	171092				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
345				QFP - Fisher Porphyry Cont'd							
346											
347											
348											
349											
350											
351											
352											
353											
354											
355				355.0m to 455.0m FDPLI - Gray Massive Gray Feldspar Porphyry							
356				- gradual change between 354m and 355m to an unfoliated, unaltered (?) Porphyry							
357				- characterized by up to 20% 0.5 to 1mm euhedral, white Feldspar phenos in a massive grey aphanitic siliceous matrix.							
358				- abundant thin QV's @ 20-40° to Ct with very vague borders							
359				- abundant py throughout, but decreasing @ depth; str-1% at 3 x 3-5% as patchy + vein-type min's							
360											
361											
362											
363											
364				363.15m Reduced From NQIT to B&TW							
365											
366											
367											
368											



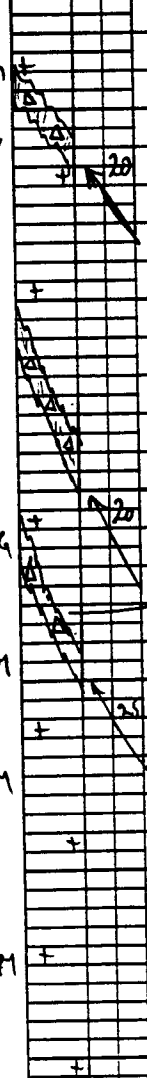
355.0m to 455.0m
FDPLI - ~~Gray~~ Massive Gray Feldspar Porphyry
- gradual change between 354m and 355m to an unfoliated, unaltered (?) Porphyry
- characterized by up to 20% 0.5 to 1mm euhedral, white Feldspar phenos in a massive grey aphanitic siliceous matrix.
- abundant thin QV's @ 20-40° to Ct with very vague borders
- abundant py throughout, but decreasing @ depth; str-1% at 3 x 3-5% as patchy + vein-type min's

363.15m Reduced From NQIT to B&TW

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368				QFP - Fiske Porphyry - Continued							
369	PT										
370	PT										
371											
372	QV										
373	PT										
374	QV										
375	PT										
376	QV										
377	PT										
378											
379											
380	QV			← QV (15-20 cm) @ 20° to CA. with .5m sensitized alteration halo (+/-)							
381											
382	PT										
383											
384											
385	PT			10m sensitized shear + py. (at 300°)							
386	PT										
387	PT										
388	PT										
389	PT										
390	PT										
391	PT										

384.5 -
elevated
Hg, As, C
in this
chemex file

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
391				QFP - Fisher Porphyry - Continued.							
392				- mostly massive - unaltered							
393				occasional QV or Fault Q							
394				sericite alt'n							
395				- abundant py (2-5%) throughout.							
396											
397											
398											
399											
400											
401											
402											
403											
404											
405											
406											
407											
408											
409											
410											
411											
412											
413											
414											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
414											
415											
416											
417	P1										
418											
419											
420	M										
421											
422											
423	M										
424											
425											
426											
427	M										
428											
429											
430											
431	P1										
432											
433	M										
434											
435	P1										
436											
437	M										

qu

qu

thin cuts

qu + ser.

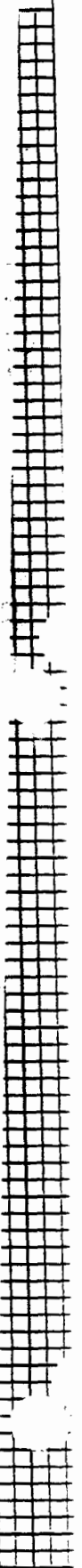
ser at th

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
437											
438	M										
439											
440				QV's							
441	M										
442											
443	M										
444				Fractans @ 10° to CA							
445	M										
446											
447											
448											
449											
450	M										
451											
452											
453	M										
454											
455	M			57 455.0m to 494.7m - FDPM - Foliated Feldspar Porphyry							
456				- same as above, however, a foliation is starting to be developed (4- min sericite alteration) @ ~50-60° to CA.							
457	M			- 2-3% (up to 5%) of throughout							
458											
459											
460											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
455				455-472 - Feldspar-poor, weakly foliated, fairly massive							
462				472-474 - Feldspar-Poor, weak to mod foliation (60°), pale greenish color (sericite alt'n).							
464				474-478 - Feldspar Porphyry, mod fl'n, pale green (sericite), spotted texture due to py + Qtz blebs up to 10mm (~25-30%)							
465											
466				478-481 - Feldspar-poor (smaller ~.5cm), mod. foliation, pale greenish grey color (weaker sericite), more massive appearance (~455-472m).							
467											
468											
469				481-483 - Feldspar Porphyry (small x/s), mod-well foliated, pale greenish-grey (sericite), 1x3cm chlorite altered fragments (?).							
470											
471											
472				483-5 Feldspar-Porphyry - less abundant x/s, strong foliation, strong sericite alt'n - pale greenish color, waxy appearance,							
473											
474				485 - 494.7m Feld-porph - strongly foliated to banded → almost Augen Gneiss, minor sericitic alt'n							
475											
476											
477				- py bands + disseminations throughout							
478											
479											
480											
481											
482											
483											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
483											
484	62										
485											
486											
487											
488											
489											
490											
491											
492											
493											
494				494.7m to 510.0m	ARTF - Strongly foliated and faulted, very thin banded trufaceous argillitic						
495					- very gradual change out of thin porphyry						
496		STG6			- grey to dark grey, siliceous, v. fine grained, Aphanic Argillaceous Rhy. porph in an argillaceous matrix						
497					- some alteration						
498					- well foliated - sheared						
499					- numerous gang zones 7-20's.						
500					- 2-3% K-feldspar + 4-11% sph. stringers between 503.4 + 504.4 (note: lost core - 30-40% recovery)						
501					- in top 2-3m - several good 1-2cm bands of grey - Argillaceous? - Aphanic Rhy. are preserved, elsewhere, shearing results in 1-2mm banding						
502					- minor green sericitic with associated 20's & Fault GB in core 3-4m						
503											
504	91/sph										
505											
506											

% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	GITY
				A	B	C	D	E			
			527.7m to 530.6m ARTF - Black, foliated. Tuffaceous Arg. Uch. - 30-50%, 1-3cm contorted + lensoidal siliceous "fragments" in a r. fr. gnd. black, graphitic matrix - to 1% ds. py.								
			532.6 to 539.5 - ARMS - Grey - Black, Graphitic (1%), thinly bedded Arg. Uch. - possible graded bedding in 2 thin (3cm) silty bands. (wash up is up 1?) @ 533.76m - to py. (chesson + sh.).								
			539.5m (1790') LEOM.								



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		207.0	209.0	2.0	171034				
		209.0	211.0	2.0	171035				
		211.0	213.0	2.0	171036				
		213.0	215.0	2.0	171037				
		215.0	217.0	2.0	171038				
		217.0	218.55	1.55	171039				
		218.55	220.0	1.45	171040				
		220.0	222.2	2.2	171041				
		222.2	223.75	1.55	171042				
		223.75	225.9	2.15	171043				
		225.9	227.1	1.2	171044				
		227.1	228.5	1.4	171045				
		228.5	230.0	1.5	171046				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
230				211.0m to 217.2m RHAF - (uncertain Fragmental) light green-grey, Apherre Rhy (banded) with sericite partings - as above 195.5-200.5m - banded, 70-80%, 1-5cm, light grey, Apherre Rhy. with ~2% chl, 1cm, dk. greenst chlorite(?) - grey, sericite partings - fr. d.s. py. (chl on fractures)							
231	QV										
232											
233											
234											
235	minor ser. with			217.2m to 218.55m RHAR - Dark grey, thin banded, argillaceous Rhyolite - >90% 1-5cm, v. fine gr. Apherre, grey to dark grey Rhyolite, with minor, thin (1mm) argillaceous partings (matrix-poor) - tr d.s. py.							
236	QV										
237											
238											
239											
240				218.55m to 222.2m RHAF - Matrix-poor, light grey, Apherre Rhyolite with a sericite matrix (banded) - as above (211.0m-217.2m) - tr d.s. py, chl on Frac.s							
241											
242											
243	sericite RHAF			222.2m to 227.0m ARS1 / RHAR - Thinly banded, grey to very dark grey, Argillaceous Rhyolite / Siliceous Andite - as above (217.2m to 222.2m), however, slightly greater argillite component ~10-20% + more thinly banded (1.5-2cm) - tr d.s. py, tr 1% shg py, tr shg sph (226.5m) - sericite alteration from 223m to 225.5m, 235.55-335.9m. - QV - 227.1m-229.25m, 228.45m (11 fslm), 231.5 (25% fslm), & 236.7-236.8m (11 fslm). - also sericite from 243.4 to 243.6m - sericite bands may represent an increase in the fuffaceous component of rock, immediately below sericite band @ 243.4m in a 20cm band of RHFS. (243.6-243.8) - abundant chlorite on Fractures							
244											
245											
246											
247											
248											
249											
250											
251											
252	QV										
253											

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverine Stratigraphic Drill Program</i>	GROUND ELEV. <i>1705 m</i>
HOLE NO. <i>WV-96-42</i>	BEARING <i>Grid South.</i>
LOCATION <i>FAHOTE ZONE</i> <i>L 8400 E / 19000 N</i>	DIP <i>-80°</i>
LOGGED BY <i>Andrew Turner</i>	TOTAL LENGTH <i>392.9 m</i>
DATE <i>July 21/96</i>	HORIZONTAL PROJECT
CONTRACTOR <i>F. Boisveau Diamond Drilling.</i>	VERTICAL PROJECT
CORE SIZE <i>NQ II</i>	ALTERATION SCALE
DATE STARTED <i>July 29/96</i>	TOTAL SULPHIDE SCALE
DATE COMPLETED <i>July 27/96</i>	LEGEND
DIP TESTS ACID ETCH: ① 100' - 30.5 m - 81° <i>uv</i> → <i>78</i> ② 500' - 182.9 m - 775° <i>uv</i> → <i>73</i> ③ 1289' - 392.9 m - 70° <i>uv</i> → <i>53</i>	
COMMENTS <i>RHAT/RHAL = variations on <u>RHER</u></i> <i>avg. facies is sericite matrix.</i>	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0				0 to 2.1m CASING - overburden							
1				2.1m to 13.65m RHAF - Coarsely Banded to Fragmental light grey to orange (oxidized), Sericite Matrix-poor, Aphanic Rhy.							
2				- overall light grey color with FeOx staining.							
3				- <10% thin (1-2m), sericite partings (matrix-poor); with 2-10cm bands (Frags?) of Aphanic Rhy.							
4				- some Rhy bands are slightly coarser grained - successic and have a pitted texture due to the oxidation of FeCO ₃ spots (.5-1m).							
5				- tr-d ₃ pg.							
6				- minor thinly banded - Fragmental between 11.0+12.1m							
7				- QV's - 10.2m-11.0m.							
8				13.65m to 19.60m RHAF - Finer-grained Fragmental, light grey (oxidized), Sericite Matrix-rich, Aphanic Rhy.							
9				- overall grey-green colors + FeOx.							
10				- 20-25% well foliated, fin. grd. FeOx stain Sericite matrix; with flattened (~.5-1cm x 2-5cm), v-lt. gr., Aphanic Rhy. like Frags.							
11				- also shows pitted texture as above. (oxidizing FeCO ₃).							
12				- tr-d ₃ pg.							
13				- QV's - 13.75-13.82m, 14.75-15.1m							
14				19.60m to 26.75m ADT - Dark Green, fine grained, Andesitic Tuff with minor interbedded RHAF							
15				- overall dark green color							
16				- Fine-grained, alkali-rich, rhy. tuff (?) possible amygdalus (silicified) @ 21.7m.							
17				- alkali-rich matrix with up to 10% 1-2cm Aphanic Rhy Frags. at 23.2m - 24.0m.							
18				- tr-d ₃ pg. - abundant frothy QV's @ removal of Carbonates (?). - calcareous							
19											
20											
21											
22											
23											

2.1m to 13.65m

10

SW

SW

20

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
23											
24											
25											
26				26.75m to 31.60m	RHAL - Grey to Dark Grey, Argill-aceous (Arg matrix-rich), Aphanic Fragmental Rhyolite - Up to 10-15%, v. Fine grained, foliated Argillite matrix; supporting rounded, irregular, 1-6cm, light to red-grey, Aphanic Rhy Fragments						
27											
28											
29											
30					- lower contacts are gradational, upper is sharp.						
31					- fr. incl py						
32				31.60m to 38.75m	ARTF - Thinly banded, v. dk grey to black Argillite with minor light grey, Aphanic Rhy - Tuffaceous Argillite						
33											
34					- 40-50%, v. fine gr., foliated, v. dk grey - black, Argillite and siliceous Argillite, with						
35					50-60% 5-2cm, slightly flattened Aphanic Rhy Frag.						
36					- Rhy. fragments content increases downward while frag. size decreases to .5-1cm.						
37					- minor 1cm band of green chlorite						
38					- mafic Euff - @ 37.5m						
39					- FeOx stud, some pitted textures on larger Rhy frag.						
40					(removal of carbonates)						
41				38.75m to 40.3m	RHAL - Argillite matrix-poor - Fragmental, Aphanic Rhyolite						
42					- as above (26.75-31.60m), however slightly less matrix (<10%).						
43				40.30m to 42.15m	RHAL - Argillaceous Aphanic Rhyolite						
44					- matrix rich. (as above)						
45											

24
25

26.75

29
30
31

31.60

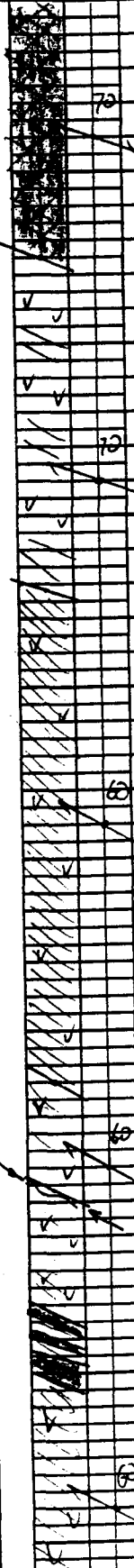
34
35

39

40 (m)

43
44

45



26.75m to 31.60m
RHAL - Grey to Dark Grey, Argill-aceous (Arg matrix-rich), Aphanic Fragmental Rhyolite - Up to 10-15%, v. Fine grained, foliated Argillite matrix; supporting rounded, irregular, 1-6cm, light to red-grey, Aphanic Rhy Fragments
- lower contacts are gradational, upper is sharp.
- fr. incl py

31.60m to 38.75m
ARTF - Thinly banded, v. dk grey to black Argillite with minor light grey, Aphanic Rhy - Tuffaceous Argillite
- 40-50%, v. fine gr., foliated, v. dk grey - black, Argillite and siliceous Argillite, with 50-60% 5-2cm, slightly flattened Aphanic Rhy Frag.
- Rhy. fragments content increases downward while frag. size decreases to .5-1cm.
- minor 1cm band of green chlorite
- mafic Euff - @ 37.5m
- FeOx stud, some pitted textures on larger Rhy frag.
(removal of carbonates)

38.75m to 40.3m
RHAL - Argillite matrix-poor - Fragmental, Aphanic Rhyolite
- as above (26.75-31.60m), however slightly less matrix (<10%).

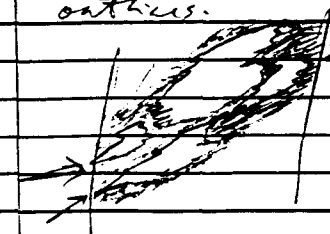
40.30m to 42.15m
RHAL - Argillaceous Aphanic Rhyolite
- matrix rich. (as above)

PAGE	OF	PROJECT:	HOLE NO.						
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		25	26.75		171162				
		26.75	28.25		171163				
		30.0	31.6		171164				
		31.6	33.2		171165				
		33.2	35.25		171166				
		35.25	36.75		171167				
		36.75	38.75		171168				
		38.75	40.3		171169				
		40.3	42.15		171170				
		42.15	42.77		171171				
		42.77	43.17		171172				
		43.17	45.0		171173				
		45.0	46.75		171174				
		46.75	48.15		171175				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
47				42.15m to 49.30m. ATGT - Inter bedded/banded, Argillaceous Fragmental Aphanitic Rhyolite and Green - mafic-tuff							
48				- light grey, v. fine gr. Aphanitic Rhyolite fragments in a v. fine gr. matrix, dark grey to black, argillaceous matrix with interbeds of massive fine grained, green to dark green chlorite (1% carb.) mafic tuff							
49				- minor sericite in Rhy.							
50				- Epidote alb + opx in tuff unit at 48.75 - 48.75m.							
51				- ATGT - 42.15m to 42.25m							
52				RHML - 42.25m to 42.50m							
53				GT - 42.50m to 42.60m							
54				RHML - 42.60m to 42.77m							
55				GT - 42.77m to 43.17m							
56				RHML - 43.17m to 46.75m (1-GT mtr)							
57				RHML/AT - 46.75m to 47.25m							
58				GT - 47.25m to 49.30m							
59				49.30m to 79.00m RHML/RHML - Intimately mixed Fragmental, Aphanitic Rhyolite with unaltered argillaceous + altered sericite matrix material.							
60				- Quite consistent, 10-15% fine gr. foliated, v. dk. grey to black unaltered aphanitic matrix and altered light-pink greenish grey sericite matrix; with sub-rounded, 1-10cm (avg) 4-5m, light grey, aphanitic Rhyolite fragments							
61				- 1-2% opx.							
62				- Whisker sub parallel to fragments results in jagged outcrops.							
63											
64											
65											
66											
67											
68											
69											

varied
arg/
ser
mbr

GT 2
carb
v
w
large
carb.
frag.



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
69												
70				- minor mafic tuff bands, chlorite + carb porphyroblasts. @ 69.85m to 70.0m, 72.35m - 72.9m, and 73.20m to 73.25m.								
71												
72				- several calcareous bands, including 75-80% of lower 1-2m., slightly coarser grained - somewhat slightly darker gray. - with white carb. fractures. @ 71.5-71.8m and 62.6m								
73												
74												
75												
76												
77												
78												
79				79.0m to 89.25m. RHAL - Argillite Matrix - Rich, Fragmental Aphanic Rhy. - as above - 26.75 - 31.6m - - .5-5cm, irregular, sheared, light gray, v. fine gr., Aphanic Rhy. Fragments in a v. fine gr., well foliated argillite matrix - dr - 1% dz pp. - minor chlorite (4% carb) mafic tuff bands - 88.50 - 88.60m + 89.10m - 89.15m - - minor carbonate fragments								
80												
81												
82												
83												
84												
85												
86												
87												
88												
89				89.25m to 90.35m ADT - Green, foliated Chlorite Andesite Tuff - composed almost entirely of chlorite, green, soft, fine grained, with ~10%, 1-3mm carb. porphyroblasts. - weath. elevated								
90												
91												
92												

Av. /
Sw
mty

large
carb
frags

Av.
mty
rich

88.6
88.75

88.50
89.15
89.25

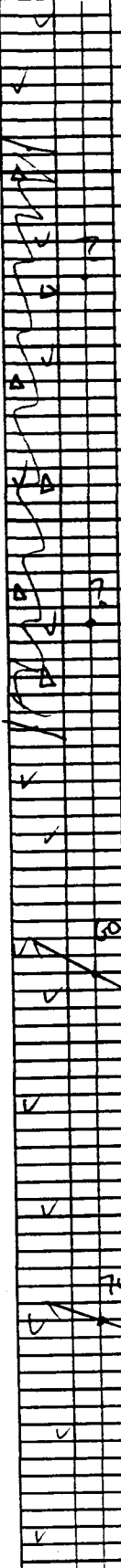
Sw

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
90.35m to 213.0m				PHAT - Pale Greenish-Grey, Serrate, Fragmental Aphanite Phylite, with a serrate matrix.							
93											
94				- 10% v. fine gr., pale green-grey serrate matrix with 1-5cm greenish-grey, v. fine gr., Aphanite Phylite fragments							
95				- to 1/2 py							
96				- Fragments are flattened to a 4:5:1 aspect ratio.							
97				- greenish-grey applied not only to matrix but also to frag.							
98				- 1 thin band of fine matrix @ 108.4m							
99				- to 108.6m							
100				- occasional thin Qtz - 102.9-103.0m, 112.8-112.9m							
101				- Abundant Fault zones STG6/SB6X, +/- FeOx weathering.							
102											
103				STBX ↔ WTRG 104.6-107.6m ↔ 103.6-108.1m							
104				- 113.3-119.0m (122-130m = numerous Fractures II to CA)							
105				134.0-132.0m ↔ 129.25-151.0m 139.3-139.7m 147.7-148.9m							
106				150.5-158.8m ↔ 153.5-158.2m 163.2-171.5m ↔ 161.4-172.0m							
107				184.6-185.2m ↔ 184.5-185.4m 193.2-197.0m ↔ 193.0-198.0m							
108				203.5-204.4m ↔ 200.5-213.0m 210.1-210.6m							
109											
110											
111											
112											
113											
114											
115											

See Map

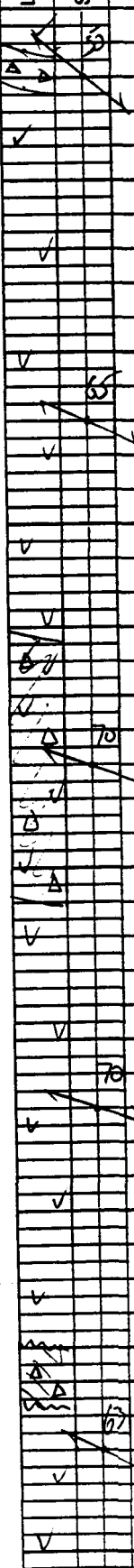
see matrix

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
161											
162											
163											
164											
165											
166											
167											
168											
169											
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171											
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182											
183											
184											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
184											
185											
186											
187											
188											
189											
190											
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206
207



Scr
193 Mbx

70

70

67

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		185.5	187.0		171210				
		190.5	192.0		171211				
		192.0	198.5		171212				
		201	202.5		171213				
		205.5	207.0		171214				
		207	208.5		171215				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
207											
208											
209											
210											
211											
212											
213											
214											
215											
216											
217											
218											
219											
220											
221											
222											
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224											
225											
226											
227											
228											
229											
230											

213.0m to 220.5m Mixed ARSI - RHAR = ARRT
Thinly Banded Argillite to Siliceous Argillite with Thick Argillaceous Rhyolite Bands (Fragments?)

- Upper 3m, primarily, dark grey - blk, v. fin. grd, thick banded (<1-2mm), Argillite and Siliceous Argillite
- Lower ~4m also contains up to 50% thicker (2-10cm), v. fin. grd., Aphanic, grey, Argillaceous Rhy bands.
- Abundant Qtz + Carb + chl + v. s.
213.8m, 215.0m, 215.35-215.45m, 215.65-215.95m, 216.6m, 217.3-217.95m, 218.1m - 218.1m
- 1-2% py + ls's, tr sph?

220.5m to 226.85m RHAT - Pale Grey - Green Banded, Aphanic Rhyolite @ a Sericitic Matrix.

- Overall Pale Gr. Green color composed of alternating thick (2-4cm) bands of light Greenish Grey, v. fin. grd., Aphanic Rhy with microlitic text., and 5-1cm, well foliated, v. fine, darker greenish grey (sericitized) matrix material
- 1-2% c. ls's of cubic py.
- gradational contacts

226.85m to 233.5m RHAR - Banded to thinly banded, dark Green, Argillaceous Rhyolite
- overall dark grey - black color
- containing various from sub-mm to 2-3cm massive v. fine grd., aphanic Rhy.

209 MRY
210 ARG
215 QVS
223 SR MRY
228 ARG



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		208.5	210		171216				
		210	210.8		171217				
		210.8	213.0		171218				
		213.0	214.5		171219				
		214.5	216.0		171220				
		216	217.5		171221				
		217.5	219.0		171222				
		219.0	220.5		171223				
		220.5	222.0		171224				
		223	224.5		171225				
		225.35	226.35		171226				
		226.35	228.5		171227				
		228.5	230.0		171228				
		230	231.35		171229				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
230				- bedding / banding in 1A con- torted thin beds -							
231				- tr-1% dis / strgy py, trsph(?)							
232				- lower contact faulted.							
233				233.5m to 234.8m STBX - RHAR - Crushed - Brecciated Argillaceous Rhyolite							
234	STBX →			- faulted lower portions of ARS1 / RHAR from above.							
235	STBX →			- QV's mixed in badly broken core.							
236				234.8m to 234.95m STGG - RHAR - Coarse Argillaceous Rhyolite / Siliceous Argillite							
237				- coarse - Coarsed.							
238				- sharp contacts folia.							
239				234.95m to 235.10m STGG - Pale Yellow - Green Altered, Argillaceous Fault Gange							
240				- 15cm zone of fault gange similar to above, however, strongly altered (sanitized) - pale yellow green color.							
241				235.10m to 238.05m STBX - ARS1 - Crushed & Broken Siliceous Argillite							
242				- badly broken, v. dk. gr - blk, thin banded (<1cm), v. fine gr.							
243				- tr dis py. minor Fe Ox. - lim(?)							
244				238.05m to 238.50m RHQL - Dark Grey, Spotted, Fairly Massive, Quartz-Eg, Rhy Lepidite Tuft							
245				- Dark Grey, Fairly massive - vaguely banded, Rhyolitic fragments (.5cm x 1cm) - lighter grey, Aphanitic Rhy, occasional 1-7mm Qtz-egs, - spotted texture, light creamy colored, carb. spheruloblasts (?) - tr sil dis sulfates.							
246				238.50m to 238.75m ARS1 - Dark Grey, v. fine gr, contorted, Siliceous Argillite							
247				- 1-2% dis sph / py, otherwise same as above. (226.45 - 233.5m)							
248											
249											
250											
251											
252											
253											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		231.55	233.5		171230				
		233.5	234.95		171231				
		234.95	235.1		171232				
		235.1	236.83		171233				
		236.83	238.05		171234				
		238.05	238.50		171235				
		238.5	238.75		171236				
		238.75	239.1		171237				
		239.1	239.55		171238				
		239.55	239.85		171239				
		239.85	240.95		171240				
		240.95	242		171241				
		242	244.5		171242				
		244.5	246.0		171243				
		246.0	247.5		171244				
		247.5	249.0		171245				
		249.0	250.5		171246				
		250.5	252.05		171247				
		252.05	254.0		171248				

PAGE	OF	PROJECT:	HOLE NO.						
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		254.0	255.73		171249				
		255.73	258.78		171250				
		258.78	261.83		171251				
		261.83	265.0		171252				
		265.0	267.93		171253				
		267.93	270.1		171254				
Reduced to B&TW @ 274.0m									
		270.1	271.35		171255				
		271.35	272.35		171256				
		272.35	273.5		171257				
		273.5	275.0		171258				
		275.0	277		171259				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
276											
277	✓			242.95m to 252.05m RHAT → Matrix-Poor, light greenish-grey. Aphanitic Rhy with a sericitic matrix							
278	✓			- <10%, 1-2mm, v fine-grained, whispy. sericitic partings in a light greenish grey, aphanitic, aphanitic Rhy - minor microlytic text.							
280	✓		60	- 1-2% stragg + dis py, occasional sph shyps (1-2%) - strange color less redish, Fe-poor(?)							
282	✓			252.05m to 265.0m RHAR - Grey to dark Grey, Aphanitic Banded Rhy dte in an Argillaceous Matrix -							
283				- Argillaceous Rhy dte -							
284				- very badly broken to rubble interval							
285	✓		68	- tr. dis py. - name says it all - chl. on Fractures							
287	✓			265.0m to 270.1m RHAT - Matrix-Poor, light greenish-grey, Aphanitic Rhyolite (sericitic Matrix)							
288				- v. similar to 247.45-252.05m							
289				- ~10%, 1-3mm, fine-grained, foliated, sericitic bands - partings in a light greenish grey, aphanitic, aphanitic Rhy.							
290	✓		65	- tr. dis py.							
292	✓			270.1m to 271.75m ARDM - Interbanded, Black? +/- Graphitic. Argillite and Aphanitic Grey Rhyolite.							
293				- Upper 1:0m - primarily Arg. ARGR.							
294				- lower ~.75m - Aphanitic Rhy/Arg.							
295	✓		70	- contorted, sheared, +/- gorse							
296	✓			271.75m to 280.0m RHAT / RHAL - Light Grey, Aphanitic Rhyolite with variably altered (Sericitic) + unaltered (Argillaceous) Matrix.							
297				chl on Fracs							
298				tr py							
299				- 10%, 1-4mm, whispy, foliated fine-grained grey - argillaceous + greenish-grey sericitic actite bands. - matrix - with Aphanitic Grey Rhyolite dte.							

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		277	278.5		171260						
		278.5	280.0		171261						
		280.0	281.5		171262						
		281.5	283.0		171263						
		283.0	284.5		171264						
		284.5	285.4		171265						
		285.4	287.0		171266						
		287.0	288.5		171267						
		288.5	290.0		171268						
		290.0	292.31		171269						
		292.31	295.35		171270						
		295.35	297.4		171271						
		297.4	298.4		171272						
		298.4	300.0		171273						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
280.0m to 285.4m			72	RHAR - Grey to Dark Grey, Aphanitic Rhyolite (w/ an Argillaceous Matrix)							
301	Arg.			- Not as dark grey as the Siliceous Argillite above, more like a darker grey (argillaceous) version of above sericitic Rhyolite							
307				- Rhy - Aphanitic, Aphanitic, banded to contorted (.5-2cm thick)							
309				- 10-15% matrix							
305			65	- 1-2% dsz py.							
285.4m to 297.4m				RHAR - as above (to 280.0m) Light Grey to Greenish-Grey Sericitic, Aphanitic, Banded Rhyolite							
307	RHFS			- 1.5cm, v. fm. grd, Aphanitic, light grey (slight greenish-grey) Rhy bands, with ~10%, v. fm. grd, foliated Apha (1-3cm) darker greenish grey sericitic matrix.							
310	Arg.		70	- to dsz py.							
297.4m to 309.0m				RHAR - Thinly Banded, Grey to Dark Grey, Argillaceous Aphanitic Rhyolite							
311				- alternating grey & dk grey bands .5-2cm thick.							
315			62	- Dk of argillaceous band separating slightly thicker, v. fm. grd, Aphanitic, med. grey, argillaceous Rhyolite							
316				- hard sil's unit							
317				- to dsz py							
318				- some contorted bedding							
319				- minor wavy grd sil's bands, not calcareous, not heavy (banki)?							
307.0m to 307.9m				RHFS - Light Grey, vaguely banded, Aphanitic Rhy (- matrix-poor)							
320			67	- thinly & vaguely banded, light grey, v. fm. grd, Aphanitic Rhyolite							
321				- very minor sericitic matrix							
322				- to dsz py							
				- gradual contact above + below.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		300.0	304.5		171274				
		304.5	307.0		171275				
		307.0	307.3		171276				
		307.3	309.0		171277				
		309.0	311.1		171278				
		311.1	312.5		171279				
		312.5	314.0		171280				
		314.0	316.0		171281				
		316.0	318.0		171282				
		318.0	320.0		171283				
		320.0	322.0		171284				
		322.0	324.0		171285				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
322											
323				307.3m to 311.1m RHAR - Thinly Banded - Contorted, Grey to Dark Grey, Argill- laceous Apherite Rhyolite							
324				- as above.							
325				- occasional chloritic band (1-3m) - tr py.							
326				311.1m to 322.0m RHAT - Light Grey, Banded, Sericitic Apherite Rhy.							
327				- Fairly typical RHAT, maybe a little lower in matrix							
328				- <10% v. fine gr. foliated 1-3mm dark greenish-grey sericitic bands (matrix), separating							
329				1-3cm v. fine gr. light grey to greenish grey, Apherite Rhy. bands							
330				- abundant Fractures - various d's - tr ds py							
331				* - occasional Fractures / Faults (1-2cm wide) @ ~20-30° to CA							
332											
333				322.0m to 344.1m RHAR - Thinly Banded - Contorted - Grey to Dark Grey, Argillaceous Apherite Rhyolite							
334				- as above.							
335				- minor calcareous, pyritic horizons between 340 + 340.4m							
336				- thin, v. fine gr. brown-grey, foliated, calcareous tuff (?) 341.8-341.9m							
337				- rare chloritic bands, 1-3m, dark green, v. fine gr. 343.2m.							
338				- gradational contacts - tr ds py (7.5m) - tr sph (32.8m)							
339				344.1m to 347.0m RHAT - Thinly Banded, Light Grey to Greenish-Green, Sericitic, Apherite Rhyolite							
340				- as above, however, contains							
341				① several thin (<1cm), silica - py bands (top 1m)							
342				② several 1-2cm, yellowish, Fe-Carb bands, +/- py (top 1m).							
343				③ Qtz-Carb-chl vein, 345.2-345.75m							
344											
345											

Ag. 1/3 Rhy - 5.1 m

py

Tr of tuff

Carb

PAGE		OF		PROJECT:				HOLE NO.	
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		324.0	326.0		171286				
		326.0	328.0		171287				
		328.0	330.0		171288				
		330.0	332.0		171289				
		332	334.0		171290				
		334.0	336.0		171291				
		336.0	338.0		171292				
		338.0	340.0		171293				
		340.0	341.8		171294				
		341.8	342.0		171295				
		342.0	344.1		171296				
		344.1	345.2		171297				
		345.2	345.75		171298				

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		345.75	347.0		171299						
		347.0	350.0		171300						
		350.0	351.75		171301						
		351.75	352.35		171302						
		352.35	353.75		171303						
		353.75	354.1		171304						
		354.1	356.5		171305						
		356.5	358.75		171306						
		358.75	360.25		171307						
		360.25	361.1		171308						
		361.1	362.8		171309						
		362.8	364.55		171310						
		364.55	366.3		171311						
		366.3	366.7		171312						
		366.7	368.5		171313						
		368.5	370		171314						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368				(?)							
369.25m to 362.8m		ARGT		Interbanded - Mixed, well foliated, BLACK Argillites and Green-TAN, Sericitic, TuFFs							
370				- very fin. grd, v. thly bndd, to laminated, black, occasionally tuFFaceous Argillites (i.e. v. small, 1-2mm siliceous frags - Lepilli?), with 60-70% very fin. grd, tan to greenish tan colored sericitic (chlorite?) fine tuFFs.							
371											
372											
373											
374											
375		QU		strange tan colored alteration. - not particularly calcareous. - or, up to 1-2% dz & sdy py.							
376											
377				ADTF - Fairly Massive, Dark Green-Grey, Carb-Porphyr-bleak, Andesitic TuFFs							
378				- v. fin. grd., weakly foliated, chl / carbonate altered (mod-str reactn), dark green-grey							
379				- minor 1-5mm Argillite laminae.							
380				- dr. 1% py. sph?							
381				- lower contact -> QU, upper contact is sharp.							
382											
383				ARTF - Mixed Bay - TuFFaceous Argillite							
384				- broken into interbanded Grey-Black Argillite, siliceous Lepilli?, tuFFaceous network - chl/ser-AMM.							
385											
386				386.65m to 388.70m							
387				QZUN - Massive Quartz H-Carb (ch?) High H-ser % py.							
388											
389											
390				390.70m to 391.40m							
391				RMST - Pale, + light, Greenish-Grey (Sericitic) TuFFaceous Rhy. - Well foliated, alternating bands of or fragments(?) of siliceous material, lensoid to banded (fin. grd) - Aphant? - lots fold prop? - in a pale green sericite - rich mbr. - traces of darker green-black Argillite - dr. py, no mbr sph - siliceous bands -> QU, var chlont.							

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		370.6	371.4		171315						
		371.4	373.0		171316						
		373.0	374.7		171317						
		374.7	375.05		171318						
		375.05	377.25		171319						
		377.25	379.2		171320						
		379.2	380.7		171321						
		380.7	382.7		171322						
		382.7	383.75		171323						
		383.75	386.8		171324						
		386.8	389.85		171325						
		389.85	391.0		171326						
		391.0	392.89		171327						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
391											
392	QFP			371.4m to 374.7m	ARGT (?) - Interbedded Argillite and Chl/Ser alted, with calcines, Major Tufts.						
393					- as above (358.75m to 362.8m)						
394	EOM				- very fine grained, well foliated-laminated, < 20% Argillite, 20-30% brownish grey - melt buff?						
395	1289"				- tr py - no vs. sph., QU lost + 40% sandstone						
396				374.7m to 376.05m	EXSP - Grey, Cherty Silica - Pl Exhalite (?)						
397					- contacts sudden - but ground-up						
398					- massive, poorly to un-foliated, cherty grey (almost glassy) silica rock @ up to 2-3% only ds						
399					Pl						
400				376.05m to 377.25m	RHST - Light Greenish Grey Sericitic Tuffaceous Rhyolite						
					- v. similar to 368.7m to 371.40m						
					- well foliated, sericitic-rich, very light greenish-grey, fine-grained Aphanitic (?) Rhy. Tuft.						
					- Fairly massive appearance						
					- tr ds py.						
				377.25m to 382.7m	Complicated Zone with Mixed and Gouged Argillite, Tuffaceous Argillite and Sericitic Tuffaceous Rhyolite.						
					- mixed up, interbedded, STGG						
					- tr ds py, no vs sph						
				382.7m to 389.85m	STGG - ARGGR - Fault Gouged Graphitic Argillite						
					- tr ds py.						
				389.85m to 391.0m	STBY - QFTUN - Massive-dark QU.						
				391.0m to 392.9m	FDPH - Massive - Weakly Foliated, Grey - Dark Grey, Feldspar Porphyritic Rhyolite.						
					"FISHWATER PORPHYRY"						
					- grey, aphanitic siliceous wt%, @ 5-10%, 5-10m Feldspar + 3-5% ds py.						

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DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 1505.2								
HOLE NO. WV96-43	BEARING 180°								
LOCATION 16650.2 E 17070.5 N	DIP -83°								
	TOTAL LENGTH 404.5 metres								
LOGGED BY J. Beardmore / P. Thurston	HORIZONTAL PROJECT								
DATE July 25 - August 5, 1996	VERTICAL PROJECT								
CONTRACTOR CARAN	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense 								
CORE SIZE HQ → 41.1 m NQ → 404.5 m									
DATE STARTED July 25, 1996	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10% 								
DATE COMPLETED August 4, 1996									
DIP TESTS acid etch <table border="0"> <tr> <td>61 m - 80.5°</td> <td>241.1 m - 75.5°</td> <td>404.5 m - 60°</td> </tr> <tr> <td>121.9 m - 78°</td> <td>304.8 m - 75.5°</td> <td></td> </tr> <tr> <td>182.9 m - 75.5°</td> <td>365.9 m - 72.5°</td> <td></td> </tr> </table>	61 m - 80.5°	241.1 m - 75.5°	404.5 m - 60°	121.9 m - 78°	304.8 m - 75.5°		182.9 m - 75.5°	365.9 m - 72.5°	
61 m - 80.5°	241.1 m - 75.5°	404.5 m - 60°							
121.9 m - 78°	304.8 m - 75.5°								
182.9 m - 75.5°	365.9 m - 72.5°								
COMMENTS massive sulphide 347.40 - 348.61 m good footwall mineralization to 357 ± metres.	LEGEND								

Table with columns: DEPTH (m), % CORE REC, LITHOLOGY, STRUCTURE, GEOLOGICAL DESCRIPTION, ALTERATION (A-E), FRACTURE INTENSITY, % VEIN QTZ. The 'GEOLOGICAL DESCRIPTION' column contains the handwritten note 'See starts on page 3'.

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphat.	
					Ser A	Chl B	Cs C	Sil D	Py E			
254	STPL			- Locally moderate pyrite masses associated w argillite gangue - apparently need pyrite along fractures - as thin bands along the Colander								
255												
256												
257	ALMS			256.6-241.5 ALMS - Black argillite w thin m to silc - str. fold - see bands (white + grey) - also bands after slow shear shear (Shear banding, retrograde folding + auger textures) - Pyrite occurs as bands + disc lenses - also as variable filling fractures to the C.A. - w pressure shadows of qtz auger								
258												
259												
260	AMMS/STPL			261.5-262.9 STPL 261.5-263.7 - Broken + blocky red grey to blk argillite to siliceous argillite 262.7-263.9 - Red ground qtz brown (Black core locally + minor gangue - Pyrite is common w the Arg Brown + much less so w the Red Breccia								
261												
262												
263	RNAT			262.9-270.6 RNAT - Broken + blocky rock to strongly chlorite altered Banded silica + thin chl/ser partly - grady into stony siliceous w argillite partly the silica bands								
264												
265												
266	RNAT			270.6-271 RNAT - Banded qtz silica + thin Argillite 271-271.5 STPL - Broken + ganged chloritic Argillite 271.5-272 RNAT - Banded ser-siliceous shist grady into RNAT.								
267												
268												
269	RNAT			272-275.8 RNAT - 272-273: Banded massive mt + siliceous shist has a strong chl content - thin argy fold silica bands w mt green dark grey blk matrix - dissply in thin by band 273-272.4 mthy sh mass w chl alteration 272.4-275.8: matrix is grey to dark grey - less chlorite than locally still								
270												
271												
272	RNAT											
273												
274												
275	RNAT											
276												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS		
		FROM	TO	WIDTH				
1 ARSC		276.7	276.5	0.3	105362			
STFL ch1-ARs gouge		276.5	277.4	0.9	105363			
		271.5	272		105357			
		272	272.4		105358			
		272.4	274.9		105359			
		274.9	275.8		105360			
		275.8	276.2		105361			
		276.2	276.5		105362			

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					SEV A	BEH I	CO ₃	OSILICA	F		
293.2-307.1				(continued) aphanitic lt. grey rhy							
300	✓			RHFS CO ₃ bands at: 297.7-297.8, 302.0-302.46							
	✓			303.9-304.0, 305.30-305.37							
301	✓			unit changes from green grey to lt. grey color at ~ 304.0 m. lower contact sharp.							
302	✓										
303	✓			307.1-308.0 MIXED BLACK ARGILLITE / BANDED							
	✓			ARMS CARBONATE							
304	✓			top 10 cm is dk grey CO ₃ followed by 20 cm of finely banded black argillite.							
305	✓			Remainder is dk grey CO ₃ , banded, w/some cutting CO ₃ veins. lower contact gradational to silica rock.							
306	✓										
307	✓			308.0-313.7 RHFS APHANITIC RHYOLITE							
308	✓			grey to grey green aphyric rhyolite with occasional CO ₃ bands same as 293.2-307.1. Banded on cm scale but mostly massive							
309	✓			309.85 5cm CO ₃ band - cream-wht color							
310	✓										
311	✓			310.77 6 cm CO ₃ band - wht to lt grey							
312	✓										
313	✓			312.6-312.82 CO ₃ + Qtz band							
314	✓			lower contact gradational to siliceous blk argillite							
315	✓			313.7-318.2 SILICEOUS BLACK ARGILLITE / TUFFACEOUS							
316	✓			ARTF black finely banded argillite, siliceous with a minor tuffaceous component local thin (2cm) CO ₃ bands, thin vfg py bands 1-2 mm thick mostly in upper part of unit. Tuffaceous component increases downhole to max 10%. lower contact sharp							
317	✓										
318	✓										
319	✓			318.2-322.1 APHANITIC RHYOLITE							
320	✓			RHFS banded med grey rhyolite, aphyric, 2-3 cm thick bands separated by thin partings of sericite. lower contact sharp							
321	✓			321.6 - 5 cm CO ₃ band.							
322	✓										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
346				347.40-348.61 MASSIVE SULPHIDE SSMS fine grained banded sphalerite + pyrite grading to semi-massive py + sp.							
347				347.40-347.95 sphalerite rich massive sulphide pyrite in top 7cm w/lesser sph (10%)							
348				*tetrahedrite matrix sphalerite > py to 347.95. Delicate banding, bands 2mm - 1cm thick local xcutting CO ₂ vein 2mm wide							
349				Buckshot py in sph matrix at 347.66 to 347.68 and 347.90-347.95.							
350				347.95-348.21 Pyrite rich massive sulphide <10% sphalerite bands (3-5 mm thick)							
				348.21-348.43 Pyrite = sphalerite (50/50) massive sulphide, coarser grained than above. 3-4mm CO ₂ vein @ 20° to core axis							
				348.43-348.61 py + sp semi massive sulphide. py > sp, sp ≈ 20%, quartz + chlorite gangue. still well banded, banding at 70° angle to core axis. Average core angle for massive sulphide zone is 70°, upper + lower contacts very sharp.							
				348.61-349.38 STRONGLY ALTERED RHYOLITE TUFF RHST sericite + mn chlorite + albite? altered tuff. 5-10% py, 15% sphalerite (red brown) in semi-massive bands + clots (fragments?) 1-10 mm thick. Minor CO ₂ and irregular patches of quartz, local pφ + cpy occur as blebs and fine clots assoc. w/chl alt bands. lower contact sharp.							
				349.38-349.51 PYRITE RICH MASSIVE SULPHIDE PYMS fine grained massive pyrite + minor quartz. local pseudo-clastic texture.							
				349.51-350.15 CALCITE + PYRITE ROCK EXCP (?) Dark grey CO ₂ with ≈ 40% pyrite as msv and semi-msv bands to 2cm thick. Upper 15 cm is semi msv CO ₂ without much py. semi msv py bands at 349.68-349.73 + 349.80-349.83 lower 20 cm is banded CO ₂ + py lower contact defined by end of abundant carbonate. In addition to py there is 3-5% pφ along foln + as clots to 3mm.							

scale continued on next page

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
				350.15-352.7 ALTERED RHYOLITE TUFF							
351				RHCT pale green + tan pervasively altered tuff, chlorite > sericite, strong CO ₂ alteration locally, top 5 cm laminated blk arg., chlorite occurs as big patches to 1cm in diameter and irregular replacements							
352				Mineralization: 10-20% combined p ₀ + cpy, occurs as folia parallel stringers and discordant clots up to 1x2 cm in size. Cpy also occurs as xcutting veins w/p ₀ up to 2-3 mm wide.							
353				Alteration has produced a pseudo-fragmental texture							
354				351.8-351.9 Qtz vein w/xcutting p ₀ +cpy veinlets							
355				352.2 15 cm thick zone w/ 40% cpy+p ₀							
356				352.7-352.86 Quartz vein							
357				352.86-357.8 ALTERED RHYOLITE TUFF							
358				RHCT pervasively altered pale green to cream colored tuff, 10-20% py to 354.2 m with 3-5% p ₀ + minor cpy. local CO ₂ but alteration is dominantly chlorite + quartz + sericite. contact at base somewhat arbitrary, 1st appearance of obvious Qtz eyes + lapilli. lots of black chlorite. sulphide content decreases down hole, chl altn ↑ down hole.							
359				357.8-381.0 CHLORITE ALTERED LAPILLI TUFF							
360				RHCL dark green to pale green chlorite alt'd lap. tuff, Qtz phenos to 2mm, alteration dominantly chlorite to approx 370 m and mixed chl > sericite to 381 m. Texturally variable from lapilli tuff w/ silica lapilli to 3x10 mm to banded fine grained lapilli poor tuff. Sporadic mineralization, mostly dism py + mnv p ₀							
361				363.4-363.5 spl + py banding on mm scale in chl alt'd lap. tuff. 2mm xcutting cpy veinlet 5cm below.							
362											
363											
364											
365											
366											
367											
368											
369											
370											
371											
372											
373											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
350									
		351.5	352.7	1.20	105378				
		352.7	354.2	1.50	105379				
		354.2	355.7	1.50	105380				
		355.7	357.8	2.10	105381				
		357.8	359.7	1.90	105382				
		359.7	361.8	2.10	105383				
		361.8	363.8	2.0	105384				
		363.8	366.0	2.20	105385				
		366.0	368.0	2.0	105386				
		368.0	370.0	2.0	105387				
		370.0	372.0	2.0	105388				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
374				381.0-399.2 SERICITE ALTERED RHYOLITE TUFF RHST Pale green to grey green banded tuff. banding on cm scale.							
375				Alteration at top is ser + chl w/ser > chl, grades into sericite							
376				dominant alteration at about 387.5 metres. Alteration decreases in							
377				intensity at 393 m, base of unit is med grey with patchy sericite.							
378											
379				Rock is generally fine grained with < 3% qtz eyes to no qtz eyes and little or no CO ₃ .							
380				Py dism throughout but < 5%							
381											
382				Upper contactal this unit somewhat arbitrary, based on decrease							
383				in % and size of lapilli and on alteration							
384											
385											
386											
387											
388											
389											
390											
391				390.4 shear							
392											
393											
394				393.5 10 cm Qtz va.							
395											
396				396.1 thin lam arg + qtz							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
397				399.2-401.5 TUFFACEOUS ARGILLITE ARTF Black to dk grey argillite w/ 25% siliceous tuffaceous component laminated on mm → 5mm scale							
398				15% CO ₂ bands to 1cm thick							
399				tr-2% thin py stringers parallel to foliation.							
400				401.4 10cm Qtz vein							
401				402.5-404.0 SHEAR ZONE STFL sheared + ground up black argillite local bxxn, lots of graphite on shear planes, contorted foliation.							
402											
403				404.0-404.5 BLACK ARGILLITE							
404				ARMS laminated platy black argillite							
404.5 EOH				tr py. in thin 1-2mm bands and dism.							

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DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 1427m
HOLE NO. 96-44	BEARING 180°
LOCATION 1733E 16845N	DIP -70°
LOGGED BY J. BREEDLOVE	TOTAL LENGTH 343.5
DATE July 25 - August 1, 1996	HORIZONTAL PROJECT
CONTRACTOR CARON	VERTICAL PROJECT
CORE SIZE HQ → 51.9 NQ → 343.5	ALTERATION SCALE 0 1 2 3 absent slight moderate intense
DATE STARTED 7/26/96	TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED 8/1/96	DIP TESTS Acid Etch Tests
COMMENTS R Pn's = 156.4 - 167m 204.5 - 214.5 Mineralized Horizons = 227.4 - 228 = 247 - 248.8	LEGEND

DEPTH (m)	CORES	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphal
					Ser	Chl	CO ₂	Sil	PO		
68.2 - 83.6				<p>dark gray to gray - dominantly sil. section to 78.3. - locally CO₂ alteration & Bands of Lt gray-whit mm scale CO₂ Bands</p> <p>- Calcification + CO₂ in bands along the foliation</p> <p>- Locally, the sulfurous component can be seen and associated</p> <p>- Bk argillite components of the interval are more pyritic & more bedded in gray variable calcareous bands - These thin bands locally show shear textures & transposed fold axes.</p> <p>- pyrite occurs as flattened masses along the folia in the Bk argillite intervals - diss. variabls in both.</p> <p>- Sulfurous - CO₂ component decreases with depth & the bedded Black Argillite component increases</p> <p>- Scattered zones sulfurous arg. continue in the Arg. dominated interval.</p> <p>- Bands & lenses of gray-green Lepidolite or disc sulfurous Bands -</p> <p>- disrupted / Bre Zone at 80.6.</p>							
82.6 - 84.3				STFL - Argillite zone - Broken CORE							
84.3 - 86.1				<p>STFL - dark gray to Bk argillite bedded or sulfurous lenses & Bands</p> <p>Lower ctst is broken but appears sharp along the contact.</p>							
86.4 - 92				<p>TF4 -</p> <p>Mottled calcareous green tuff locally nebular calcareous masses on the cm scale - Both upper & lower ctsts are strongly bedded & bedded w/ light gray calcareous + disc lenses & bands - chisier at the tuff. - the lower well-foliated ctst is no. 9m - lower ctst is gradual in Argillite is bedded green tuff - TRAC diss. Py</p>							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
cherty Tuff uchl		204.5	205	0.5	105279				
EXMTC Siliceous Matrix		205	205.7	0.7	105280				
EXMTC CO ₂ Matrix		205.7	207	1.3	105281				
Fault gouge		207	208	1.0	105282				
Banded Siliceous Argillite		208	210.6	2.6	105283				
EXCP		210.6	212.5	1.9	105284				
EXCP		212.5	213.4	0.9	105285				
EXSP		213.4	214.4	1.0	105286				
Chert		214.4	215.4	1.0	105287				
Chert		215.4	217.9	1.5	105288				
Banded Siliceous Argillite		217.9	219.5	1.6	105289				
Fault gouge Siliceous		219.5	221.5	2.0	105290				
EXCP		221.5	222.5	1.0	105291				
ALTF (siliceous Argillite)		222.5	224.5	2.0	105292				
Argillite gouge		224.5	226	1.5	105293				
New Tuff Argillite		226	226.7	0.7	105294				
		226.7							

DEPTH (m)	CODE #/NMS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					Ser	chl	CO ₂	Si	Polyst	P.P.P.	Sphal
247-248				RHSB - Ser ch - R. possible wolverine rare? siliceous sericite - bulk - - lens of 2-3cm optically silica - nebular silicification surrounds these in Ser areas - these older than Clastic Complex - composed Bxrs - predominantly pyrite = local - assay Beds of sph - where py is abundant semimassive to massive - near Po							
248	RHSB										
248.5											
249				248.8-251.8 RHSB - relic lignite Anorthite + sericite + sh feld schist in Beds a loss of py - contains lenses of bands of silica - but these contain CO ₂ + chl - STRag sheny texture local zone of compacted zone 2-3cm - CO ₂ alk in w.k. - STRad disc. py locally magnetic Po - grading into less altered + brownish shaly sericite							
249.5											
250											
251											
252											
253				251.8-260.3 RHSB - Brownish green to grey but - thin disc. into talc spots, some shaly feld lenses that are variable CO ₂ altered - Pyrite is trace - 1% - Graded down in lower lenses along the collocation - note lack of beds, of grey - feld lenses - locally some magnetic (B)							
254											
255											
256											
257											
258											
259				259.1-260.5 - gauge zone II to the C.A. - STG - Fine sand matrix							
260				260.3-266.7 RPTF - appearance of 1-1.5cm bands of sub-angular quartz + feldspar from the above lenses Schist - shaly feld lenses are still common - also decrease in CO ₂ attenuation of these - lower str is placed at the gradational appearance of a sericite matrix - w.k. magnetic - Gradation increase in Anorthite							
261											
262											
263											
264											
265											
266											
267	RPTF			266.7 - Gradation increase in Anorthite							



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
RHXT - Red + sandy		290.6	292.6	2.0	105320				
" "		292.6	294.9	2.3	105321				
STFL - FH Box on RHXT		294.9	295.3	0.4	105322				
RHXT - Field		295.3	297.5	2.2	105323				
San Arg Schist		297.5	299.6	2.1	105324				
MTF		299.6	301.4	1.8	105325				
MTF		301.4	303.1	1.7	105326				
MTF San gauge		303.1	303.9	0.8	105327				
San Arg Schist - gauge		303.9	305.9	2.0	105328				
Argo San gauge		305.9	308	2.1	105329				
MTF		308	310	2.0	105330				
" " " cone		310	312.3	2.3	105331				
MTF		312.3	314.6	2.3	105332				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
ARTF		314.6	316.6	2.0	105333				
ARTF		316.6	318	1.4	105334				
ARTF		318	320.4	2.4	105335				
Arg. gouge		320.4	321.3	0.9	105336				
ARTF		321.3	323.8	2.5	105337				
ARTF + mica gouge		323.8	325.2	1.4	105338				
ARTF		325.2	326.6	1.4	105339				
STFL - Arg gouge		326.6	327.6	1.0	105340				
ARTF		327.6	329.2	1.6	105341				
Ctct + mica ARTF + QFPI		329.2	330.1	0.9	105342				
QFPI		330.1	332	1.9	105343				
QFPI		332	334	2.0	105344				
Rims - Py sphal chl Rich		334	334.5	0.5	105345				
QFPI		334.5	336.4	1.9	105346				
		336.4	338.3	1.9	105347				

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	Y
					Ser	chl	CO3	Si1	PO		
				339.2-338.6 QFP1							
332				at 336.6-337.6 - almost all gbs very alk like Carbonate - calcine							
338				M. Buxby locally - appearance of 41 to 500 ppm Crags							
339				338.6-339 STFL - serrated chl gangue							
340				339.6-343.5 QFP1 at 338 ~ the same to name Sphal band over 10cm - arsenic							
341				= more gangue - chl + ser residual quartz							
342				at 332 alkyl from barite residual sph?							
343				at 340 ~ diss very fine by Sphal? in arsenic in ste-bld phos							
343.5 Boho				342.5 Boho							

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DRILL LOG

PROJECT <i>Wolverine Stratigraphic Drill Program</i>	GROUND ELEV. <i>1680m</i>
HOLE NO. <i>WV-96-45</i>	BEARING <i>180° South 215° TN</i>
LOCATION <i>L860DE / 19000N</i>	DIP <i>-80°</i>
	TOTAL LENGTH <i>1329' = 405.08m</i>
LOGGED BY <i>Andrew Turner</i>	HORIZONTAL PROJECT
DATE <i>July 30/96 - August 6/96</i>	VERTICAL PROJECT
CONTRACTOR <i>F. BOSVENA DIAMOND DRILLING</i>	ALTERATION SCALE 
CORE SIZE <i>NQ II</i>	
DATE STARTED <i>July 29/96</i>	TOTAL SULPHIDE SCALE 
DATE COMPLETED <i>August 6/96</i>	
DIP TESTS <i>Acid Btch</i> <i>(1) - 0' - 0m = -80°</i> <i>(2) 600' - 182.9m = -73°</i> <i>(3) 1029' - 313.6m = -70°</i>	
COMMENTS <ul style="list-style-type: none"> - testing "Mafr Unit" between DOM 41 + 42 - Mafr Tafts encountered between 379.2m & 385.8m - Sph occurs between 359.6 - 395.5m @ this horizon - also sph min @ <u>242.75m - 250m (?)</u> - Barite (?) @ 296 - 299m 	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0				0m to 3.05m DMCS - CASING - O/B							
1											
2											
3				3.05m to 5.80m ARTF - v. Dark Grey - Black, Tuffaceous Argillite w lighter Grey, Rhy "Fragments"							
4	ARTF			- 10-30%, 1-5cm, lensoid, v. fine grd, light grey, Aphanic Rhy "Fragments" (or thin sheared bands), in a v. dark grey - black, foliated - laminated argillite matrix.							
5											
6	5.8 RHF5			- Weathered, FeOx stain, no vit py.							
7	7.0										
8	STBX (RHAR)			5.80m to 7.00m RHFS - Light Grey, Massive to Vaguely Banded, Felsite							
9				- gradational contact from ARTF above into a fairly massive - vaguely banded, v. fine grd, Aphanic Felsite							
10	9.5			- minor sericitic partings							
11				- Euhedral, FeOx stain, no vit sulf.							
12	RHAR										
13	(RHS) RHAR - RT			7.00m to 9.50m STBX - RHAR - Brecciated to Crushed, Grey, Argillaceous, Aphanic Rhyolite							
14	STBX			- Brecciated section +/- Gouge							
15				- Very siliceous, v. fine grd, med to dark grey, Aphanic Rhy.							
16				- Weathered, FeOx stain, no vit sulf.							
17	16.6			9.50m to 16.60m RHAR - Banded light Grey Aphanic Rhyolite in argillaceous Matrix (matrix - rhyolite 10-20%)							
18				- Thickly Banded (1.5-2cm), sheared, lensoid bands of light grey, v. fine grd, Aphanic Rhy. and .5-1 cm bands (matrix) of fold Argillite							
19				- cleavage "S ₁ " developed at 20° to S ₁ , resulting in jagged edges on bands.							
20	RHM (SW)			- Weathered FeOx stain, no vit py.							
21				- gouge (3.3-13.8m)							
22	MAX spots										
23											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
23											
23.5	mining			16.60m to 28.15m							
24				RHAT - Matrix-poor, light greenish-grey, Sericitic, Banded Aphanitic Rhyolite							
25				- 1-5cm bands of light greenish-grey, v. fine gr., aphanitic rhyolite with within (1-3mm) slightly darker sericitic partings							
26				- sericite matrix-poor (<10%)							
27				- tr. 1% ds py; 3-5%, 1-5mm, irregular, black MnOx spots between 28.8m + 27.2m							
28	28.15			- minor argillitic matrix between 23.0 + 24.0m							
29	ARTF			- tr. weathering + FeOx staining							
30	29.5										
31	RMAL (as per 28)			28.15m to 29.50m							
32				ARTF - Tuffaceous Argillite with light grey Rhyolitic Fragments (same as above; 3.05m-5.80m)							
33	32.7			- v. fine gr., foliated-laminated, black argillite @ 20-25%, .5-2.5cm, v. fine gr., light grey, aphanitic Rhy. frags (rounded-lensoid-foliated)							
34	32.9			- tr ds py, no FeOx							
35				- QV - 28.50 - 28.60m							
36	RMAL (28.50)			29.50m to 32.70m							
37				RMAL - RMFR - Argillitic Matrix - Rich, light grey, Fragmental Aphanitic Rhyolite							
38	37.65			- 80-90%, .5-4cm, light grey, fine gr., aphanitic rhy fragments (lensoid-rounded - in foliation) in a black argillaceous matrix							
39	38.15			(transitional between ARTF + RMAL)							
40	39.25			(RMFR)							
41				32.70m to 32.40m							
42				(RMAL) - Argillitic Matrix-poor, Fragmental to Banded, Light Grey Aphanitic Rhyolite							
43				- overall irregular fragmental texture, with 1-12cm, sub-rounded, light grey, v. fine gr. aphanitic rhy frags. in <10%, dark grey-black argillitic matrix							
44				- Fairly matrix-poor							
45				- minor FeOx staining, with							
45				- tr % ds py.							

PAGE OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		25	26.5		171338				
		28.15	29.5		171339				
		29.5	31.0		171340				
		31.0	33.0		171341				
		33.0	34.5		171342				
		36.0	37.5		171343				
		37.5	38.7		171344				
		38.7	40.0		171345				
		40.0	41.5		171346				
		43	44.5		171347				
		45.5	47.0		171348				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		48.0	49.5		171349				
		51.0	52.4		171350				
		52.4	54.0		171351				
		55.5	57.0		171352				
		57.0	58.5		171353				
		60.5	62.0		171354				
		64.5	66.45		171355				
		66.45	67.5		171356				
		67.5	68.7		171357				
		68.7	70.0		171358				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
69											
70				68.70m to 70.00m RHFR - Excellent Fragmental Rhyolite - Matrix-rich, Arkifite > Sericite							
71				- Excellent Fragmental textures, up to 80%, .5-10cm, sub-rounded v. fm. grd, Arkifite Rhyolite; size of fragments and % of rock is quite variable (the larger the fragments, the less matrix there is)							
72											
73											
74											
75				- Matrix composed of black to dark greenish-grey (sericitized) argillite							
76				- contact @ ovalizing matrix buff is sharp, but where contact is gradational or subjective							
77											
78				- & dirt py							
79				* - fragments appear heterolithic? eg. 76-79m, 80% of frags are grey, siliceous, fine grained to sucrose, and aphanic. 20% are slightly coarser grained							
80				- definitely sucrose-, and much lighter grey to creamy grey in color.							
81											
82											
83				* Basically the same as RHFR above							
84											
85				- minor weathering @ dissolution of carbonate component in Rhy(?) resulting in brown to orange brown (Fe/Mn Ox stud) and vuggy sections: 70.9m - 72.00m, 77.5m - 79.85m							
86											
87											
88											
89				90.0m to 111.1m RHAT - RHFR - Light Greenish Grey, Aphanic Rhyolite with a sericitized matrix and Banded to Fragmental Text.							
90				- badly weathered between 97.4m + 110m otherwise; ~90%, 1-5cm, light greenish-grey, sericite, fm. grd.							

Cretaceous

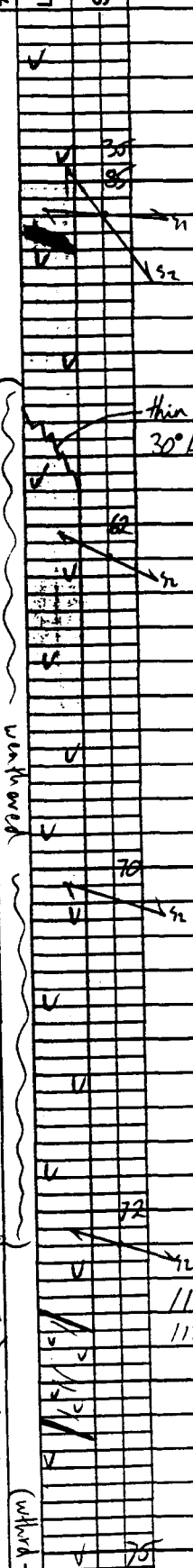
Quaternary

RHFR

(H.S.G.)

50%

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
92												
93				to very fin. grd. aphanic Rhyolite fragments in a darker greenish-grey sericitized matrix. (1-3mm).								
94				- occasionally, the "fragments" are large enough & flattened to the extent that the rock appears banded.								
95				- tr. ch. py.								
96												
97				- two thin sections of fairly massive, fine grained, dark greenish grey, Qtz-ser schist.								
98				- Fine Rhyolite Tuff? -								
99				91.75 to 91.95 m and 95.1 - 95.35 m								
100												
101												
102												
103												
104												
105												
106												
107												
108												
109												
110												
111				111.1m to 112.7m RMFR - Argillite - Matrix-rich, Aphanic Fragmental Rhy.								
112				- as described above, 68.7-90.0m ~75%, .5-5cm, flattened, light grey, fin. grd., aphanic rhyolite in a black argillite matrix.								
113				- quartz but gradational contacts								
114				- tr. ch. sulfides. (1-2% fin. ch. py)								
115												



PAGE OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		92.0	93.5		171365				
		95.1	95.4		171366				
		96.0	97.5		171367				
		101.0	102.5		171368				
		105	106.5		171369				
		109.5	111.1		171370				
		111.1	112.7		171371				
		114.5	116.0		171372				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
115				112.7m to 152.4m								
116				RHAT (RMFR) - Light Greenish-Grey, Banded (1% Frags + 1) Aphane Rhysolite								
117				- Sericite Matrix-poor Phg. Phg = Banded Phg.								
118				- ~10% greenish-grey, Fin. grd. nearly foliated sericite matrix (altered r for tufaceous arg?)								
119				as 1-2mm partings between or surrounding 1-10cm (~2x6cm)								
120				light greenish grey, sericite, v. Fin. grd. pitted, aphanitic Phg. bands / frags.								
121 (arg)				- tr ds 17/100								
122				- numerous weathered sections								
123				113.5m - 119.0m, 121m - 227.5m, 125m - 130.0m, 134m - 136.75m, 139m - 143.0m, 146-148m + 150m - 151m								
124												
125				- minor arg utry @ 120.9-120.0m								
126												
127 Ser												
128												
129												
130												
131												
132												
133												
134												
135												
136												
137												
138												

hand lens (100x)

75

70

72

60

60

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
138											
139											
140											
141											
142											
143											
144											
145											
146											
147											
148											
149											
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158											
159											
160											
161											

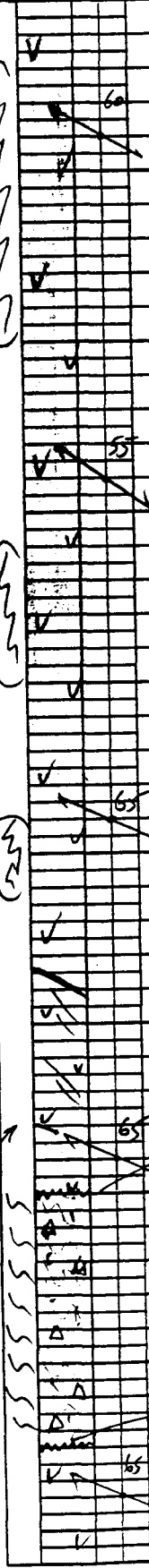
152.40mb RHRZ (RHM) - Grey, Fragmental, Aphanic Rhyolite with an Argillite Matrix (matrix-rock) - as above.

154.60m Fine grained fragments (1.5-2cm), Flattened, 20-25% matrix with minor sericitization.

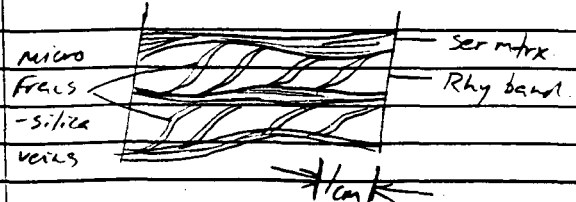
154.60m RHRZ (RHM) - Light Greenish-Grey, Sericitic, Aphanic - Banded - Rhyolite - as above, ~80%, 1-3cm, light

grey to greenish-grey, aphanic rhyolite bands separated by whizpy to 2-3mm foliated sericite laminae to parting - 1-2% crs. ds. py - FeOx Fault (155.6-159.2m)

Handwritten annotations on the left margin: 'Sed' (143-144), 'mg' (153-154), 'Sed' (156-157), '160' (160).



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
161												
162	✓			162.4m to 166.65m RHFZ - (RHML) - Grey + DK Grey, Banded, Aphanic Rhyolite w Argillite matrix								
163	✓			- as above, however, rgr (and in particular the matrix) are not alt'd to sericite								
164	✓			- tr 1% ds py.								
165	✓			- there is some sericite present in occasional partings.								
166	✓											
167	✓			166.65m to 169.95m RHFZ - (RHAT) - Light Greenish Grey, Banded, Sericite, Aphanic Rhyolite								
168	✓			- as above, very subjective + gradational contacts w/out sericite alt.								
169	✓			- tr 11% ds py.								
170	✓											
171	✓			169.95m to 175.7m RHFZ - (RHAL) - Grey (+DK Grey), Banded, Aphanic Rhyolite, w Argillite matrix								
172	✓			- as above, tr minor sericite (greenish alt'd bands)								
173	✓			- tr ds py.								
174	✓											
175	✓											
176	✓			175.7m to 198.8m RHFZ - (RHAT) - Bright Greenish-Grey, Sericite, Banded, Aphanic Rhyolite								
177	✓			- as above, 1-2cm banded								
178	✓			Fu. grad, aphanic, light grey to greenish grey. Rhyolite material w 10-20% v. Fu. grad, darker green, Foliated sericite alt'd matrix								
179	✓			- Rhy bands have micro-fracture texture - silicified (?).								
180	✓											
181	✓											
182	✓											
183	✓											
184	✓											



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		322.5	324.5		171473				
		324.5	326.5		171474				
		326.5	328.5		171475				
		328.5	330.5		171476				
		330.5	332.5		171477				
		332.5	334.5		171478				
		334.5	336.5		171479				
		336.5	337.5		171480				
		337.5	340.5		171481				
		340.5	341.5		171482				
		341.5	344.5		171483				
		344.5	345.5		171484				

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
320				ARS							
321											
322											
323											
324											
325											
326											
327											
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329											
330											
331											
332											
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350											

ARS

ARS

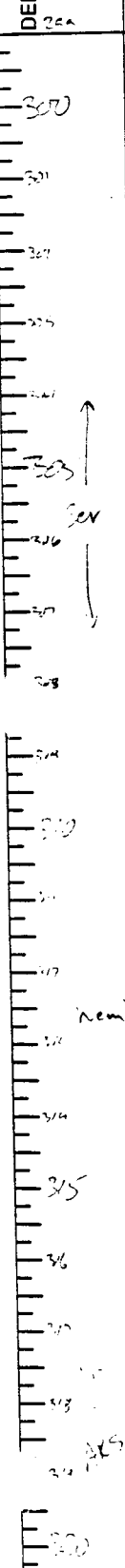
45

10-14 1144

21

23

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
272.3m to 276.9m				RH4R - V. DK Green - Foliated, contorted - Banded Argillaceous Rhonolite with argillite interbands (matrix)							
				- as above							
				- chl / ser / py filled fracture with CA @ 274-274.2m							
				- tr ds. py.							
276.9m to 284.5m				RH4T - RH4R - Fragmental to well Banded Light Green to Greenish grey Aphanitic Rhonolite with a sericitic matrix (sericite interbands)							
				- Rln - 1-5cm undulating bands to fragments to .5-1.5cm thick							
				- Filled foliated dark green sericite interbands (matrix)							
				- tr ds. v. fine ds. py in sericite interbands							
				- tr v. crs. epidote / py (.5-1cm vls)							
				- tr ds. Mt in Rln. bands							
				- QV's @ 292.15m - 292.2m, 292.55m to (11.5%) 297.65m, 297.95m - 297.9m, 297.95 - 297.90m (25% b(A))							
				- Decrease in matrix downward							
				- Barite bands - 5cm thick - mt							
				- sericite @ 296.4, 297.7m - 294.6m							
				- v. toffaceous (Rln - poor) + minor hematite sin @ 284.65m + 312.5-313.0m							
				- 10cm zone of overprinting of 2 phases							
314.5m to 315.6m				ARS: (RH4T) -							



DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
245.75m				PHAT - Major matrix							
252.95m				V. Light Green							
				4-microlites (least 2m)							
				- 2-5 m thick, light green, fine grained aphanitic Rhy bands w/ various wholeness sericitic paragonite.							
				- 2-3% det + sdgy py + 1-2% chry sph							
252.90m to 257.25m				APSI (?) - PHAT - Dark Green to Blk, Thinly Banded, Siliceous Arg. to Argillaceous Aphanitic Rhy?							
				- thin (1cm), contorted - narrow!							
				dark green, fine grained, aphanitic argillaceous Rhy with bands (?) with 20-30% thin (2.5m), black argillitic inter bands (matrix?)							
				- 2-3% det + sdgy py							
				- 1-2% det sph (comp. 10m)							
257.25m to 263.10m				PHAT - Light Grey to Greenish Green, Banded, Sericitic Aphanitic Rhy							
				- normal PHAT, 2-5cm Rhy bands @ 2mm ser paragonite - well banded - 1-2% det py.							
263.10m to 265.20m				PHAT - Dark Grey - Black Banded Aphanitic Argillaceous Rhy.							
				- as above.							
				- 2-5cm banded thin contorted siliceous to argillaceous argillitic inter bands (matrix?)							
				- 1-2% det py.							
265.20m to 272.3m				PHAT - Light Green to Greenish Green, Thinly Banded Aphanitic Rhy with Sericitic Inter bands (matrix?)							
				- as above Rhy bands 1-3cm fr. argillitic ser bands 1-15mm (matrix?)							
				- 2-5cm sharp upper contact zone with A below near 1.5m							

broken core

QV5

Quartz

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		255.5	257.25		171444				
		257.25	258.75		171445				
		260.0	261.5		171446				
		261.5	263.1		171447				
		263.1	265.9		171448				
		265.9	266.5		171449				
		266.5	270.5		171450				
		271.3	272.8		171451				
		272.8	273.5		171452				
		274.5	276.2		171453				
		276.2	278.0		171454				

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
233				233.75 - 233.85m: RMST - 233.75 - 233.85m - 233.85 - 233.95m							
234				234.45 - 234.65m, 234.75 - 234.85m							
235				235.40 - 235.45m, 236.00 - 236.05m							
236				236.15 - 236.20m, 236.7 - 236.75m							
237				237.00 - 237.10m, 237.15 - 237.45m							
238				237.50 - 237.7m, 237.75 - 237.8m							
239				238.0 - 238.05m							
240				★ - 2-5% fragments - or - sheared silica - in Fr. in RMST between 235.4 + 238.0. - yellow Fe - carbonate (?) alteration.							
241				- minor siliceous Argillite mineral in Fr. in 237-238m - sericite							
242				238.35m to 240.00m RMAR - Dark Green to Black Argillite and Amibaceous Amphibolites							
243				- 1-3cm conchoidal dark green, v. Fr. and siliceous argillaceous Elm. to 10-20% 1-4mm Argillite interbeds							
244				- 3-5% sheared silica on Fr. in 240.00m to 242.6m							
245				240.00m to 242.6m S-GG - QUS + ARMS / AR GP.							
246				242.6m RMST / ARS1 - very thin interbedded							
247				2430m Apple green + grey sericite tuftaceous Elm and siliceous to graphitic argillite - contains up to 2-3% siliceous sph strus.							
248				definite SPH							
249				243.0m to 245.75m EXSP - SILICA - PYLXHALITE (?) - 5-10% v. coarse - blocky. of dark green to black 1-4mm sil. bl. in lower part in a dark green - kenta - v. Fr. - siliceous Silica Rock - massive							

S-13-X-Some loss

S-13-X

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		231.25	231.6		171423				
		231.6	232.6		171424				
		232.6	232.9		171425				
		232.9	234.25		171426				
		234.25	235.5		171427				
		235.5	237.0		171428				
		237.0	238.5		171429				
		238.05	238.35		171430				
		238.35	240.0		171431				
		240	241		171432				
		241.0	242.6		171433				
		242.6	243.0		171434				
		243.0	244.3		171435				
		244.3	245.75		171436				
		245.75	247.5		171437				
		247.5	249.0		171438				
		249.0	250.0		171439				
		250.0	251.5		171440				
		251.5	252.9		171441				
		252.9	253.8		171442				
		253.8	255.5		171443				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		207.5	209.5		171407				
		209.5	211.5		171408				
		211.5	213.0		171409				
		213.0	215.5		171410				
		215.5	216.0		171411				
		216.0	217.5		171412				
		217.5	218.5		171413				
		218.5	219.5		171414				
		219.5	221.0		171415				
		221.0	222.5		171416				
		222.5	224.0		171417				
		224.0	225.5		171418				
		225.5	227.0		171419				
		227.0	228.5		171420				
		228.5	229.5		171421				
		229.5	231.0		171422				

DEPTH	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
202.6m to 209.7m	20			<p>RHAT - Thinly Banded green "granitic" - massive "granite" in the lower contact</p> <p>- 20-30% quartz (10-20% - 10-15%)</p> <p>- radiolite in lower contact</p> <p>Fairly abrupt upper contact</p> <p>- tr 13 py</p>							
209.7m to 209.5m				<p>RHAT - Thinly Banded greenish green - granitic / hornblende</p> <p>- hornblende</p> <p>QV's - typical QV's, mainly a little more quartz (10-15%) in 5mm water bands - 10-20% quartz bands</p> <p>- tr 13 py</p> <p>- minor RHAT (204.6m - 205.0m)</p> <p>- QV's @ (207.05 - 208.0m, 208.15 - 208.20m + 208.5 - 208.2m)</p> <p>- radiolite cutt below</p>							
209.5m to 217.6m	50			<p>RHAT - Banded Green + Black</p> <p>Hornblende + Biotite</p> <p>- 20-30% quartz (10-15% - 10-15%)</p> <p>- not associated with later bands</p> <p>- minor sericitization associated</p> <p>QV's @ 212.1-212.2m, 212.3-212.6m, 212.65-212.95m, 213.0-213.05, 213.1-213.2m, 213.5-213.6m, and 213.9-213.95, 214.1-214.15</p> <p>(+ 1% chd clots + Be-magnetite)</p> <p>- tr 13 py</p>							
217.6m to 218.3m	70			<p>RHAT - V. Thinly Banded - Foliated, Greenish - Green, Sericitic Amphibole + Hornblende Tuff</p> <p>- Fine Qtz - ser schist</p> <p>- Not associated into thick Qtz bands + thin ser-bands</p> <p>- v. thin banded / laminated / foliated</p> <p>- ser > Qtz 11. Fr. and greenish green to brownish-green color</p> <p>- tr 13 py</p> <p>- radiolite into RHAT below</p>							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		184.5	185.4		171394				
		185.4	187.0		171395				
		188.5	190.0		171396				
		191.5	193.0		171397				
		194.5	196.0		171398				
		197.5	198.8		171399				
		198.3	199.2		171400				
		199.9	201.5		171401				
		201.5	202.6		171402				
		202.0	203.7		171403				
		203.7	205.0		171404				
		205.0	206.5		171405				
		206.5	207.0		171406				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		345.6	347.6		171485				
		347.6	349.6		171486				
		349.6	351.6		171487				
		351.6	352.15		171488				
		352.15	353.5		171489				
		353.5	355.0		171490				
		355	356.5		171491				
		356.5	358.0		171492				
		358.0	359.75		171493				
		359.75	361.0		171494				
		361.0	362.5		171495				
		362.5	364.0		171496				
		364.0	365.5		171497				
		365.5	367.3		171498				
		367.3	367.55		171499				
		367.55	369.6						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368											
369											
370											
371											
372											
373											
374											
375											
376											
377					377.65m to 379.2m						
378					ARSI - Very thin banded to laminated black, siliceous argillite						
379					- borderlike ARMS. but quite hard siliceous. br py. +/- stg b to						
380					379.2m to 380.85m						
381					ADFF - LIGHT BROWNISH - GREY, BANDED TO FOLIATED, FELDSPHATIC (CARB-ALT'D)						
382					FINE GRAINED TUFFALOUS ANDRESITE.						
383					- v. fringed, foliated, ser - rich, thin whisp argill. inter bands						
384					- 20% 1-3mm, white, carb-alt'd Feldspar phenos (?)						
385					- tr 1% alb py						
386					- 1-2% sph string @ 379.4m						
387					- 5-10% thin < 1mm, successive carb bands (+/- py/sph).						
388					380.85m to 382.75m						
389					ADFF/ARMS - THINLY INTERBANDED BLACK ARGILLITE AND LIGHT BROWNISH GREY TUFFALOUS ANDRESITE (FELP-PHATIC)						
390					- as above @ 20-40%, 2-3mm scillite interbands						
391					- also 0 carb bands +/- py/sph = (+)						

LMHT

QVS

RMAR

LMHT

QU

376 LMHT

SPT

380

Andesite?

Sph

5566

21412

PAGE

OF

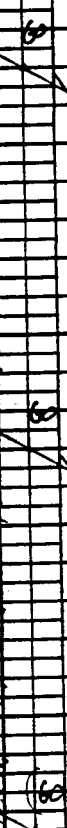
PROJECT:

HOLE NO.

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		369.6	370.7		171501				
		370.7	371.85		171502				
		371.85	372.7		171503				
		372.7	374.5		171504				
		374.5	376.0		171505				
		376.0	377.65		171506				
		377.65	379.2		171507				
		379.2	379.6		171508				
		379.6	380.85		171509				
		380.85	382.75		171510				
		382.75	384.0		171511				
		383.5	383.8		171526				
		384.0	385.8		171512				
		385.8	386.95		171513				
		386.95	388.5		171514				
		388.5	389.4		171515				
		389.4	389.95		171516				
		389.95	392.9		171517				



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
391				382.75m to 385.8m	ADFT - MASSIVE TO FOLIATED, MEDIUM GRAY, FELDSPAR PORPHYRYIC ANDOLSTOV TUFF							
392												
393					- v. fn. grd massive but foliated, medium grey (not chloritic?), @ 20-30% 1-3cm, equant Feld-phenos (?) all'd -> carbonate							
394					- also contains numerous thin (1-3cm) sucrose carbonate bands (?) - often wavy							
395					- tr 1% ds/sty py + tr sph (?)							
396					1-2% ds py							
397												
398					385.8m to 386.95m							
399					ARMS - Thickly Banded Arzillite BLACK (+/- Graphite)							
400					- v. fn. grd, thinly banded, black arzillite (+/- graphite)							
401					- @ occasional thin carbonate bands							
402					- minor Qtz-chl veins, tr py (sph?)							
403					386.95m to 389.95m							
404					RMST - EXCELLENT EXAMPLE OF SERICITIC RHYOLITE LAPILLI TUFF							
405					- up to 50% slightly lensoid, 5-2cm, v. fn. grd, light grey siliceous rhyolite lapilli, in a finer grained silica + light green sericite-rich matrix (+/- arzillite)							
406					- sharp contacts above + below							
407					- 1-3% Fy ds to blobby to strag py throughout + sph shors between 388.8-388.85							
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395 R
 396 (sph)
 397 STG6
 398 B
 398.5
 399
 399.75
 400 B
 400
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 403
 404
 405
 406
 FOM
 1329'
 (405.08m)



EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverine Lake Regional	GROUND ELEV. 1370.7
HOLE NO. WV96-46	BEARING Ø° GRID NORTH
LOCATION 16659 North 17560.1 East	DIP -66
	TOTAL LENGTH 323.7
LOGGED BY P. Thurston / G. Bradshaw	HORIZONTAL PROJECT
DATE 05 August - 11 August 1996	VERTICAL PROJECT
CONTRACTOR CARON DIAMOND DRILLING	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE HQ to 100' / NQ to	
DATE STARTED 05 August 1996	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED 10 August 1996	
DIP TESTS Acid Etch 61.0 m -65 304.8 m -79° 121.9 m -70 182.9 m -70 243.8 m -73.5	
COMMENTS 24 feet of casing	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0.0 - 8.53				NO CORE							
8.53 - 11.27				OVERBURDEN Mixed lithologies - strongly oxidized.							
11.27 - 22.2				BLACK ARGILLITE ARMS dk gry to black laminated argillite, thin silica lensoids + stringers.							
22.2 - 31.0				ARGILLACEOUS LAPILLI TUFF RHAT dk grey + cream to white colored lapilli tuff. Lapilli composed of silica and up to 1x5 cm but mostly 1x3 cm in size, matrix is black to dk grey argillaceous material. Strongly oxidized to 26.0 m, weak oxidation to about 30 m. oxidation mostly limonite on fctns and foln surfaces. Primary foliation at 30° to core axis.							
29 - 31 m				Lapilli content decreases downhole and clasts become smaller. 29 - 31 m matrix > 60% of total							
				traces of dism py, << 1%							
28.6				small fault perpendicular to core axis							
30.48 m				Reduce to NQ							

POOR CORE RECOVERY

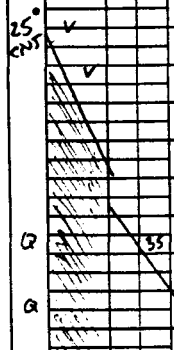
NO CORE RECOVERY

30°

30°

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
33	R			31.0-36.28 LAPILLI TUFF RHTF light grey to pale green grey siliceous lapilli tuff. moderate sericite alteration. strong shear fabric, foliation at 20-25° to core axis. lapilli composed of silica							
34	R			32.6 10 cm qtz vein							
35	R			34.4 10 cm qtz vein - contact 60° to CA							
36	R			35.6 15 cm qtz vein - 70° contacts lower contact at unit sheared.							
37											
38				36.28-46.5 ARGILLACEOUS LAPILLI TUFF RHAT white to grey siliceous lapilli ~5x10 to 20 mm, really stretched. matrix is black argillaceous material. Lapilli > 50% at top of unit and > 65% at base. clast size increases w/depth. core angle of foliation is ~25° lower contact gradational. tr-1% pyrite occurs as subhedral xtals to 2 mm and thin coatings along foln and fracture surfaces.							
39											
40											
41											
42											
43											
44				46.5-49.6 BANDED APHYRIC RHYOLITE RHFS med grey silica rock, banded on mm to cm scale, sericite partings define banding. 3-5% dism py along foliation. 25° core angle somewhat oxidized at 48.5-49.2 (poor recovery in this zone, Fault?)							
45											
46											
47											
48											
49				Fault?							
50				49.6-53.1 ARGILLACEOUS LAPILLI TUFF RHAT banded lapilli tuff, >70% siliceous lapilli, matrix is black argillaceous material + minor sericite. 25° core angle, tr py, <1%.							
51											
52											
53				53.1-53.3 FAULT? sheared + ground core							
54											
55											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				53.3-74.4 BANDED APHYRIC RHYOLITE							
56	✓			RHFS pale green grey banded aphanitic silica rock with chlorite ± sericite partings. Really broken core and poor recovery throughout entire unit - core angle ~ 25° and rock is pretty hard + brittle. tr pyrite but <<1%.							
57	✓										
58	✓										
59	✓										
60	✓			lower contact sharp, upper contact marked by end of argillaceous matrix							
61	✓										
62	✓										
63	✓			74.4-79.5 BLACK ARGILLITE							
64	✓			ARMS platy laminated black argillite with 10% siliceous bands. Evidence of tight to isoclinal folding - silica bands dismembered and local rootless folds. NO CO ₃ , 3-5% pyrite as thin mm scale bands and coatings on late cutting brittle fractures.							
65	✓										
66	✓										
67	✓										
68	✓			77.0-77.4 graphitic shear surfaces							
69	✓										
70	✓										
71	✓										
72	✓										
73	✓										
74	✓										
75	✓										
76	Q			76.7 5 cm qtz vein							
77	Q			77.5 8 cm qtz vein							
78											



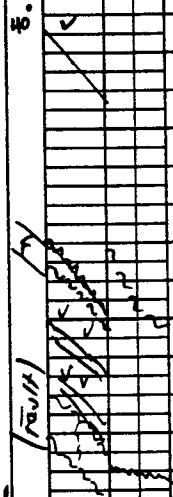
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
79.5-79.6				FAULT							
79				broken + gougy core - siliceous rhy + blk arg + 10% pyrite							
79.6-83.9				BANDED APHANITIC RHYOLITE							
81				RHFS							
82				lt. grey to green grey aphyric silica rock, faint banding defined by chloritic partings on 0.5-1.0 cm scale. Foliation at 25-35° to core axis and locally contorted							
83				tr - 1% dism pyrite. Broken core.							
83.9-88.2				BLACK ARGILLITE							
85				ARMS							
86				siliceous w/ 25% 0.5 cm silica bands at top grading to a black somewhat graphitic argillite at base							
87				3-5% pyrite along foln. core angle 30°							
88.2-94.8				APHANITIC RHYOLITE							
88				RHFS							
89				pale green-grey silica rock, faint banding, really broken core. 30° core angle							
94.4-94.6				Qtz + CO ₃ vein w/ sericite stringers							
94.8-97.7				CHERTY(?) CALCAREOUS IRON FM.							
91				EXMC							
92				(EXMT CO ₃)							
93				lt grey to green grey rock composed of silica + chlorite + carbonate + magnetite. magnetite occurs as discrete grains 0.5-1.0 mm and in semi massive bands. Total magnetite content 5-10%, CO ₃ is in bands parallel to foln, 10-15% total. Unit is banded on cm scale, bands defined by magnetite + chlorite. tr-3% pyrite dism,							
94				massive magnetite bands @ 96.4-96.7							
95				silica (cherty rhyolite?) is the dominant host rock lithology. Chlorite content varies from 3-5% to 20% in and around the massive magnetite bands. Overall this unit is an interlayered silica-CO ₃ -magnetite rock.							
97.7-99.7				CHERTY RHYOLITE							
99				RHCV							
100				lt gry interlayered aphanitic rhyolite + massive banded silica rock							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
99.7-103.6				SILICEOUS ARGILLITE							
102			ARSI	siliceous (silicified?) black argillite							
103	38			with 1/2 green silica bands up to 0.5 cm thick. 3-5% dism pyrite							
104				30° core angle - poor recovery							
105	No CORE			NO CORE							
106.7-116.0				APHANITIC RHYOLITE							
106			RHFS	banded green-grey aphyric rhyolite							
107				slight argillite component (10%) in bottom 1 metre. tr-1% py							
108				poor recovery - ground core							
109				BLACK ARGILLITE							
110			ARMS	banded to laminated black argillite, locally quite siliceous but mostly platy, sometimes graphitic.							
111				occasional interbeds of aphyric rhyolite up to 30 cm thick							
112				pyrite present as 1-2 mm foln parallel bands and subhedral xtals to 4mm.							
113				local CO ₃ , mostly as scuttling veinlets 1-3 mm							
120.0				tight "Z" folds in siliceous bands							
122-124				calcareous bands							
123.5				30 cm Qtz + chl + mar CO ₃ vein with Py.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
125				116.0-138.7 BLACK ARGILLITE (continued) 124.4 "Z" folds in siliceous layer 4mm thick							
126				126.9 10 cm qtz vein							
127	Q										
128				128.0-128.4 Aphyric rhyolite interbed							
129				129.5 8 cm qtz vein							
130	Q			130.6 10 cm qtz vein							
131	Q			130.9-131.3 Quartz vein							
132				132.6-133.2 ground core, poor recovery shear zone?							
133											
134				134.3 12 cm qtz vein							
135											
136				138.7-156.1 MASSIVE TO BANDED RHYOLITE ZHFS aphyric pale green silica rock, aphanitic, banded on cm scale							
137				bandings defined by chloritic partings, variable sericite + chlorite alteration, no CO ₂ . Alteration mostly in diffuse patches and along foln in thin bands							
138											
139											
140											
141											
142											
143											
144											
145											
146				146.9-147.5 fine grained tuffaceous band w/strong sericite alteration							
147											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
148				148.4-149.4 possible fragmental texture stronger chlorite alteration							
149			35								
150											
151											
152				152-156 Really broken core							
153											
154			40								
155			40								
156				156.1 lower contact really broken up can't determine exact nature of contact							
157				156.1-158.9 Banded argillaceous rhyolite							
158				RHAR ⁺ essentially the same rock as above but with 20-40% thin bands of black argillite, rhyolitic bands are aphyric green grey silica. really broken core, poor recovery, especially 156.4-158.9 (45%) lower contact faulted,							
159				158.9-159.1 FAULT GOUGE							
160				STGG sericitic clay gouge w/subround breccia fragments.							
161				159.1-160.6 ARGILLACEOUS RHYOLITE							
				RHAR med to dk grey siliceous rock w/ 20-30% thin (1-3mm) bands of black argillite. really broken core + poor recovery							
				160.6-161.5 FAULT ZONE							
				STFL crushed + gougy zone, beautiful fault plane preserved in the middle of the gouge zone - fault is parallel to core axis, slicks indicate oblique slip motion							
				161.5-161.6 APHANITIC RHYOLITE							
				RHFS pale green aphyric silica rock broken core							

Scale continued on next page



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
161.6-161.85				IRON FORMATION							
162		EXMC (EXMT)		top 8cm is bxxd with fragments of felsic rock in a magnetite + chlorite matrix							
163				161.68-161.75 banded white to cream CO ₂ w/ thin magnetite bands + minor py							
164				161.75-161.85 mm scale banded magnetite-CO ₂ -chlorite + pyrite rock (5-10% py)							
165				161.85-162.3 SERICITE + CHLORITE ALTERED							
166				RHST BANDED RHYOLITE							
167				pervasive ser + chl altd rhy (tuff?) in footwall of iron formation. NO CO ₂							
168				162.3-166.0 BANDED APHANITIC RHYOLITE							
169				RHFS med grey banded aphyric rhyolite wk ser altn, tr-3% dism py.							
170				166.0-169.9 FAULT ZONE							
171				STFL sheared sericitic rock to 166.7, grey gouge + sheared blk argillite to 169.9.							
172				169.9-173.3 CALCITE-PYRITE ROCK							
173				EXCP green grey to lt grey banded carbonate rock w/pyrite bands up to 1cm thick thin bands (2mm) of sph + galena at very top of unit. banding is on 5-10 mm scale. total sulphides = 30%. core angle = 25°-35°, core recovery fair, core also pretty broken.							
174				173.3-175.3 FAULT ZONE							
175				STFL sheared + gouge zone in platy, graphitic, black argillite. poor recovery							
176				175.3-178.3 CALCITE-PYRITE ROCK							
177				EXCP white to cream/tuff colored carbonate with bands of semi-massive pyrite and cross cutting veins + clots of pyrite. local sphalerite (176.6n). this unit is locally brecciated with pyrite filling open space between jigsaw lit clasts. lower contact faulted and marked by 10cm quartz vein. Pyrite content >40% overall. core angle 50-60°							
178				178.3-191.4 FAULT ZONE							
179				black sooty gouge and fault breccia, locally graphitic, strong shearing.							
180				182.0-183.5 NO CORE RECOVERED							
181											
182											
183											
184											

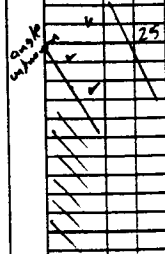
80° ← FAULT ZONE
 25° ← FAULT ZONE
 35° ← FAULT ZONE
 60° ← FAULT ZONE
 NO CORE

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		161.5	161.85	0.25	105427				
		161.85	162.3	0.45	105428				
poor recovery		162.3	166.0	3.7	105429				
poor recovery		166.0	169.9	3.9	105430				
		169.9	171.9	2.0	105431				
		171.9	173.3	1.4	105432				
		173.3	175.3	2.0	105433				
		175.3	176.8	1.5	105434				
		176.8	178.3	1.5	105435				
		178.3	182.0	3.7	105436				
poor recovery		183.5	189.9	6.4	105437				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
185											
186											
187											
188											
189				189.9-191.4 chlorite alteration in fault zone							
190				191.4-192.6 CHLORITE ALTERED RHYOLITE TUFF							
191				RHCT dark green siliceous platy tuff, strong chl alter, thin bands (3-4mm) of silica in matrix of chloritic schistose material. 5-10% py and a thin zone (191.95-192.0) of sph + py mineralization							
192				core angle 35° lower contact faulted							
193				192.6-192.9 FAULT							
194				STFL sheared black argillite w/CO ₃ veining							
195				192.9-204.6 PALE GREEN APHANITIC RHYOLITE							
196				ZHFS really broken core. lt green chloritic banded siliceous rock, aphyric. Core angle 25-30°, local blk arg partings in lower 2m.							
197				204.2 bxxd siliceous rock, healed fault?							
198				lower contact sheared + broken							
199				204.6-210.5 SILICEOUS ARGILLITE							
200				hard to fell... really ground up core, black siliceous argillite							
201				laminated on mm scale. Felsic component ± 40%							
202											
203											
204											
205											
206											
207											

90
FAULT ZONE

POOR RECOVERY



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
208				210.5-219.0 LIGHT GREEN APHANITIC RHYOLITE RHFS							
209				pale green aphyric rhyolite, ground core, poor recovery, mod chl altn							
210				looks like horrible drilling conditions, really fractured + shattered							
211				probably part of a shear zone (see core above + below) kind of like logging RC cuttings.							
212				219.0-221.3 BLACK ARGILLITE ARMS							
213				ground up lam blkarg poor drilling conditions poor recovery							
214				gougy zones.							
215				221.3-223.2 LIGHT GREEN APHANITIC RHYOLITE RHFS							
216				pale green aphyric rhy, broken core to 224.0. banded on mm to cm scale, local thin pyrite							
217				bands parallel to foln. mod to strong sericite altn + mod chlorite altn patches.							
218											
219											
220											
221				221.5-221.8 Broken gougy bxxd zone - FAULT - STFL							
222											
223											
224				224-224.5 CO ₂ bands to 1cm thick							
225											
226											
227				227.2-233.2 TUFFACEOUS BLACK ARGILLITE ARTF							
228				laminated blk/grey argillite/silica ~40% volcanic component							
229				lower contact sheared. volc component decreases downhole							
230											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
231				233.2-236.0 BROWN CRYSTAL TUFF RHXT Quartz phytic crystal tuff, 10-20% 1 mm qtz phenos, brown foliated matrix, top 50cm chlorite altered. 1-3% py as thin seams along foln							
232				233.2-233.28 Qtz vein + CO ₂ w/ chlorite selvages on vein margin.							
233											
234											
235				236.0-236.13 Qtz-CO ₂ vein + minor chlorite QCVN							
236				236.13-242.0 BLACK MATRIX CRYSTAL TUFF RHXT quartz phytic crystal tuff, some lithic frags (5-10%) qtz phenos are ovoid blue-white 1-3 mm dia and 15-20% of rock. matrix is fine grained dk brown to black color strong foliation at 45° to core axis.							
237				238.7-238.8 Quartz vein							
238				239.1-239.6 Quartz vein							
239											
240				242.0-245.8 SHEARED CRYSTAL TUFF + QTZ VEINS RHXL Sheared sericitic + chloritic tuff w/ abundant Qtz veins, tuffs are green-brown w/ 10-15% qtz eyes, fine grained and banded on mm scale, pretty broken core							
241											
242				245.8-267.7 BROWN MATRIX CRYSTAL LAPILLI TUFF RHXL platy brown tuff with < 5% qtz phenos and 25-30% white silica lapilli to 1x3 cm in size. occasional carbonate lapilli. biotite partings 1-2% py as clots and disseminations							
243											
244											
245											
246											
247											
248											
249				248.7-249.0 lt gray mass. aph. rhy w/ sub mm micaceous partings							
250											
251											
252				253.5-253.9 qtz veining + silicification							
253											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>poor recovery</i>		229.5	233.2	3.7	105455				
		233.2	236.2	3.0	105458 (NOTE: OUT OF SEQ)				
		236.2	239.2	3.0	105456				
		239.2	242.0	2.8	105457				
		242.0	245.8	3.8	105459				
		245.8	248.8	3.0	105460				
		248.8	251.8	3.0	105461				
		251.8	254.8	3.0	105462				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
254											
255											
256											
257											
258											
259											
260											
261											
262											
263				262.0-264.4 - same mineralogy - more abundant quartz "eyes", blue oval qtz 2-3 mm diam.							
264				gradual lower contact							
265											
266											
267											
268				267.7-277.7 LIGHT GREY APHANITIC RHYOLITE RHFS gradual contact from rhy frags w/ biotite matrix to rhy w/ pale green ser and py along partings, irregular fracturing							
269											
270											
271											
272											
273				269.9 - compressional angular fold (10cm long)							
274				dark gm chl blotches							
275				274.1 - 10 cm qv.							
276											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
277											
278		RHXL		277.7-280.3 BROWN MATRIX CRYSTAL LAPILLI TUFF same criteria 20-30° qtz "lapilli" in a well foliated biotite matrix. occ. siliceous intervals							
279											
280											
281		ARCB		280.3-292.0 CARBONACEOUS - LOCALLY SILICEOUS ARGILLITE ranges from black massive carb. arg to greenish grey tuffaceous (rhy) arg. 2-3% py bands + lenses							
282											
283				281.9-282.6 - greenish grey qtz phytic well foliated rhy tuff. sub mm bands of py along partings (1%) also py (1-2%)							
284											
285				284.6-285.5 - rhy tuff - broken up.							
286											
287				From 283.3 to end of unit - very gouged core.							
288											
289											
290											
291											
292		STGG		292.0-293.8 GOUGE ZONE - clay like yellow gm - blk orange							
293											
294		RHFS		293.8-294.3 MED GREY APHANITIC RHVOLITE 1% py in occ 1-2 mm wide bands							
295											
296		FDPH		294.3-299.1 DARK GREY FELDSPAR PORPHYRY very fractured up - irregular qtz + cc fill fractures 10-15% 2-3 mm rectangular white felds. phenos. ab qz's. 1-2% py along fractures.							
297											
298											
299		EXCP		299.1-299.7 CALCITE SILICA PYRITE EXHALITE? - upper contact arbitrary - decrease in feldspar phenos							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				(see mineralization description)							
300				299.7-301.2 SERICITIC QUARTZEYE RHYOLITE LAPILLI TUFF RHSR minor calcite prominent yellow green serc. altn. ocd 1-2mm blue qcs. (see mineralization description.)							
301											
302				301.2-305.1 SILICEOUS ARGILLITE - abo qtz veins. ARS1 1-2mm scale qtz frags, mainly blk weakly carb. arg 1-5mm carbonate bands w/ py							
303				302.2-302.4 - qv, 302.6-10cm qv 302.7-302.9 - gauged core.							
304				305.1-316.3 GREY RHYOLITE TUFF RHTT variable, locally calcareous, rare white 1-2mm rectangular feldspar phenocrysts. occasional silicification / qtz veining, local intervals w/ green-brown sub-mm micaceous partings. calcite bands 4-5mm thick (streaky). ~2% pyrite as distinct f.g. bands and disseminations minor disseminated pØ.							
305											
306											
307											
308											
309											
310											
311											
312											
313				sharp lower contact - 50°							
314				316.3-317.0 SILICEOUS ARGILLITE / ARGILLACEOUS ARS1 RHYOLITE TUFF - blk amastomosing matrix, coarse 1-10mm siliceous lens shaped fragments; local green ser. <1% disseminated py.							
315											
316											
317				317.0-320.3 GOUGE ZONE STGG very ground and gauged blk carbonaceous arg. minor siliceous component							
318											
319											
320											
321				320.3-323.7 SILICEOUS ARGILLITE ARS1 same as 316.3-317.0 above.							
322											
323				E04 - 323.7							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
RHSR - *3% py - sub-euhedral (cubes) disseminated. <1% pø disseminated.		299.7	301.2	0.5	105480				
		301.2	303.2	2.0	105481				
		303.2	305.1	1.9	105482				
		305.1	308.1	3.0	105483				
		308.1	311.1	3.0	105484				
		311.1	314.1	3.0	105485				
		314.1	316.3	2.2	105486				
		316.3	317.0	0.7	105487				
		317.0	320.3	3.3	105488				
		320.3	323.7	3.4	105489				

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV.
HOLE NO. WV96-47	BEARING 215°
LOCATION	DIP -70°
	TOTAL LENGTH 1284 ft. / 391.4
LOGGED BY	HORIZONTAL PROJECT
DATE 7 August 1996.	VERTICAL PROJECT
CONTRACTOR BRITTON BROS.	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE NQ.	
DATE STARTED	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED	
DIP TESTS	
COMMENTS Test airborne EM/mag anomaly and anomalous soil geochemistry	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
5				0-7.6 DHNK casing							
6											
7											
8				7.6-30.6 Light grey to biacic R: fragmental in a dark black matrix fragments generally 5-15mm in size. It Intensely sheared and has minor oxidized matrix.							
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											

30.6-45.2 Medium grain, calcareous
 v. fine grain massive mic
 flow. Unit is very fine
 gr and massive @ the
 base. Upper part of
 unit from 30.4-30.6
 has abundant lensoid
 stages. *amyg.*
 Qtz is v. sugary
 intertexture and is
 secondary.

Minor secondary oxide
 along fractures.
30.8 - trace stringer sp in a
 matrix.

45.2-60.0 Medium grain - dark green
 intermixed calcareous *tril* *ap*
 fine grain *tril* *ap*
Ammonite *tril* *ap*
tril *ap*

70

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		52.4	55.3		175010				
		55.3	64.0		175011				
		64.0	70.1		175012				
		70.1	73.1		175013				
		73.1	76.2		175014				

PAGE		OF		PROJECT:				HOLE NO.				
MINERALIZATION DESCRIPTION				TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
					FROM	TO	WIDTH					
					121.9	126		175025				
					126	129		175026				
					129	140.2		175027				
					140.2	146.4		175028				
					146.4	149.5		175029				
					149.5	152.4		175030				
					152.4	155.4		175031				
					155.4	158.1		175032				
					158.1	161.5		175033				
					161.5	163.7		175034				
					163.7	163.9		175035				
					163.9	167.6		175036				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
166				163.7-163.9 medium green - massive somewhat vuggy, Qtz-bearing dyke							
168											
170				163.9-176.5 black carbonaceous argillite thin laminated							
172				ARC B micar diss by and to fracture filling Qtz							
174				abundant gouge throughout section							
176				176.5-190.3 Black graphitic fine grained black argillite							
178				ARC R argillite							
180											
182											
184											
186											
188											
190											
192				190.3-200.2 STOP. Very faulted locally brecciated argillite							
194											
196											
198											
200											
202											
204											
206											
208											
210											
212											

PAGE	OF	PROJECT:	HOLE NO.						
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		167.6	171.9		175037				
		171.9	175.3		172351				
		175.3	180.4		172352				
		180.4	182.9		172353				
		182.9	188.9		172354				
		188.9	195.1		172355				
		195.1	201.2		172356				
		201.2	204.2		172357				
		204.2	210.3		172358				
		210.3	216.4		172359				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		216.4	224.8		172360				
		224.8	234.7		172361				
		234.7	240.8		172362				
		240.8	244.1		172363				
		244.1	248.7		172364				
		248.7	256.3		172365				
		256.3	260.9		172366				

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverine Lake	GROUND ELEV. 1505 m
HOLE NO. WV96-48	BEARING 180°
LOCATION 16500 E 17096 N	DIP -85
	TOTAL LENGTH 400.8
LOGGED BY P. Thurston / J. Breedlove / G BRADSHAW	HORIZONTAL PROJECT
DATE August 6 - August 12	VERTICAL PROJECT
CONTRACTOR Caron	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE HQ to 100 ft / NQ to 400.8	
DATE STARTED August 4, 1996	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED August 12, 1996	
DIP TESTS Acid Etch 12.8 m -85° 61.0 m -84.5°	
COMMENTS massive sulphide 373.3 - 375.2	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0.0-2.4				casing							
2.4-12.8		ARWK		MIXED ARGILLITE + WACKE pretty oxidized, 50% fine laminated black argillite w/ traces of pyrite + Pφ. 50% coarser grained wacke or grit, crudely banded. core pretty broken to 11.3m. some layers more siliceous than others.							
10.2-10.3				broken looking grey CO ₃ w/ scuffing sericite + CO ₃ veins, blebs & irregular patches of Pφ + PY. minor chlorite							
12.8-13.75				FAULT STFL black gouge w/ frags of argillite Fault is 30° to core axis							
13.75-14.68		ARMS		ARGILLITE med gry → blk argillite, lam on mm scale, slightly calcareous, locally broken & jumbled. 75° core angle. LOTS of calcite in discordant extensional veins, mostly perpendicular to layering. traces of Pφ + PY in CO ₃ .							
14.68-14.70				FAULT STFL 2cm zone of bxxn w/ CO ₃ cement, angular to subround frags of arg + wacke. Fault @ 50° to core axis							
14.70-38.0		RHAR		INTERLAYERED RHYOLITE / ARGILLITE grey aphyric banded rhyolite interbedded with black argillite. interbedding on several scales: rhy w/ arg laminations on cm scale and rhy units intbdd w/ arg units on metre scale							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
24				14.7-38.0 (continued) top of unit is > 50% rhyolite, middle (27-31m) is roughly 50/50 rhy:arg, bottom is > 50% argillite.							
25				mineralization: trace to 5% pyrite + minor pd, mostly in argillite units along foln and in high angle fcts.							
26				some CO ₂ bands present but < 5% of total.							
27											
28											
29											
30											
31				38.0-40.0 QUARTZ VEIN ZONE QTVN							
32				Milky white quartz vein zone with inclusions of blk argillite to 4 cm and grey banded CO ₂ to 5 cm. abundant brassy py and 5% chlorite clots. (Qtz flooding old fault?)							
33											
34				40.0-41.1 BLACK ARGILLITE ARMS							
35				laminated blk argillite w/minor tuffaceous component. 2-3% py. 40.4-40.6 - Qtz vein							
36				41.1-41.8 QUARTZ VEIN QTVN							
37				white milky, massive, Qtz vein w/minor py. lower contact sharp, 60° to core axis.							
38											
39				41.8-46.8 TUFFACEOUS BLACK ARGILLITE ARTF							
40				laminated black argillite with silicic volcanic tuff component tuffaceous material approx 40% by volume at top of unit and decreasing to 0% at the base. tr-5% py along foln and in cutting fcts.							
41											
42											
43				46.8-47.3 QUARTZ VEIN QTVN							
44				white milky Qtz vein, tr py tchl							
45											
46											

DEPTH (M)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
47	45%			47.3-49.7 ARMS BLACK ARGILLITE laminated blk arg w/ 3-5% pyrite. very minor tuffaceous component.							
48				42.8 48.0 4 cm qtz vein 10 cm qtz vein							
49	55%			lower contact based on change in volcanic component							
50				49.7-56.7 ARTF TUFFACEOUS ARGILLITE laminated black argillite with a strong volcanic component consisting of lenses and bands of grey silica. volc ~ 40% at top of unit, 75% at base.							
51											
52											
53											
54											
55				55.5 vuggy white CO ₃ , jigsaw lit arg. frags, mnr py.							
56				lower contact faulted							
57	20%			56.7-57.0 STFL FAULT 15 cm bxx zone @ 20° to core axis with angular frags of rhy + CO ₃ cement lower 15 cm is clay gouge + crushed rock.							
58											
59				57.0-62.4 RHAR LAMINATED RHYOLITE TUFF w/ ARGILLITE PARTINGS dk grey siliceous argillite laminations in dominantly silica (rhyolite) rock banded on mm → cm scale. 7-10% pyrite dism + on fets							
60											
61											
62	55%			Qtz veins 60.0-60.1, 60.3-60.7, 61.1-61.2							
63				62.4-72.6 ARTF TUFFACEOUS BLACK ARGILLITE laminated black argillite with variable rhyolitic volcanic component thin 3-5 mm bands of silica and lenses 3x4 mm of silica are ~ 10% at top of unit, up to 50% locally, and ~ 20% at base. local beds of coarser grained sediments (wacke)							
64											
65	40%										
66				"S" folds in silica bands							
67	40%										
68				pyrite ubiquitous 7-10% thin sub-mm stringers along foln.							
69											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
70				72.6-78.3 CALCREOUS GREEN TUFF TFA med green fine grained banded to laminated tuff. CO ₂ common							
71				as thin grey bands to 0.5cm and discontinuous foln parallel lenses							
72	55			locally striped green/white with 2-4 mm thick bands.							
73				foliation often contorted							
74				73.95 8cm qtz vein							
75				74.7-74.4 contorted foln.							
76				75.06 10cm qtz + CO ₂ vein							
77				76.6 10cm qtz vein							
78	65			76.9 sheared & contorted foln., small fault							
79	65			77.4 broken CO ₂ bands in sheared pale green tuff + 10cm whit-grey CO ₂ zone							
80	55			78.3-79.0 APHANITIC RHYOLITE							
81				RHFS grey green banded aphyric rhyolite, mod-strong chl altn. broken core							
82				79.0-79.8 QUARTZ-CARBONATE VEIN							
83				QCUN milky white qtz vein w/chl + ser + CO ₂ partings of tuffaceous material							
84				79.8-80.4 SERICITE ALTERED GREEN TUFF							
85				TF3 fine grained green tuff - mod ser altn.							
86				80.4-80.8 QUARTZ-CARBONATE VEIN							
87				QCUN white qtz w/coarse CO ₂ + chl partings							
88				80.8-81.3 SERICITE ALTERED GREENTUFF							
89				TF3 med green ser alted by tuff, lam on mm scale							
90				81.3-81.9 FAULT							
91				STFL strong ser. alted gougy green tuff, contorted foln + lots of shearing							
92				81.9-83.7 SERICITE ALTERED GREEN TUFF							
				TF3 pale green banded tuff, mod-strong sericite alteration, mnv CO ₂ , occasional qtz stringers, contorted foln, locally sheared.							
				83.7-85.0 BANDED SILTCEOUS GREEN TUFF							
				RHFF? chl alted rhy?, banded on mm scale NW contact contorted, lower contact faulted.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
93				85.0-85.9 STGG FAULT GOUGE green + black fault gouge + breccia highly contorted foliation							
94				85.9-86.3 ARMS BLACK ARGILLITE lam blk arg w/minor CO ₃							
95				86.3-86.45 STFL FAULT gouge zone w/bxxd blk arg + thin slice of green tuff.							
96				86.45-89.3 ARMS BLACK ARGILLITE (locally siliceous) lam blk arg, minor CO ₃ , tr py.							
97				89.3-89.7 STFL FAULT gougy + bxxd zone w/qtz + CO ₃ veining. blk arg + green tuff in fault gouge.							
98				89.7-90.7 ARMS BLACK ARGILLITE lam blk arg, minor tuff component tr py on fets.							
99				90.3-90.6 RHAR MIXED BLACK ARGILLITE + RHYOLITE really broken core, 50% aphyric rhyolite, 50% black argillite							
100				90.7-95.4 STFL FAULT healed breccia cemented by CO ₃ Fault @ 30° to core axis							
101				95.4-95.5 ARTF TUFFACEOUS ARGILLITE laminated black argillite w/ 20-40% tuffaceous component consisting of bands + thin lenses of silica minor coarser clastic (wacke) component increasing towards base, rare thin 1-2 cm bands of green tuff.							
102				105.2-107.7 TF4 CALCAREOUS GREENTUFF banded calcareous green tuff, top 10 cm looks like finely laminated green mud, rest is coarser grained but still fine grained, tiny fsp phenos → calcite, local CO ₃ veinlets							
103				107.7-109.0 ARWK INTERLAYERED ARGILLITE + WACKE black lam argillite, locally siliceous, with wacke interbeds up to 10 cm thick tr - 3% py on fets.							
104				109.0-109.9 TF3 GREEN TUFF weakly calcareous fine grained green tuff, 10-15% CO ₃ alted fsp phenos.							
105											
106											
107											
108											
109											
110											
111											
112											
113											
114											
115											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
116				109.9-118.2 ARGT Mixed SEDIMENTS + VOLCANICS complex unit consisting of interlayered black argillite, thin (10-20cm) wacke beds, minor green tuff, and laminated black + green mud rocks. unit is ~ 80% black argillite which is approx 25% tuffaceous.								
117												
118	95%											
119				118.2-121.2 RHAT TUFFACEOUS ARGILLITE / ARGILLACEOUS TUFF striped blk/white tuffaceous argillite, or argillaceous lapilli tuff, >70%								
120												
121	30%											
122												
123				121.2-123.7 ARGT INTERLAYERED ARGILLITE / GREEN TUFF blk argillite, argillaceous tuff, and green tuff. Green tuff bands not calcareous and 10-12 cm thick, blk arg bands are 40-50% tuffaceous. 3-5% py in blk arg along foln.								
124	35%											
125												
126				123.7-136.9 RHAT ARGILLACEOUS LAPILLI TUFF banded lapilli tuff w/ blk argillaceous matrix, variable texture ranging from >80% siliceous grey to white lapilli with blk matrix to roughly 50/50 clast/matrix content. lapilli generally 2-3 mm thick but getting smaller downhole. occasional 1-2 cm thick bands of green tuff but < 5% overall								
127												
128												
129												
130												
131					bottom 1.2 metres weakly sericite altered, pale brown matrix material							
132												
133												
134												
135												
136												
137	30%											
138												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
139				136.9-140.4 BANDED GREEN TUFF TF3 fine to med grained massive to banded green tuff. banding on cm scale. top 30 cm contains 40% siliceous + calcareous lapilli. remainder is pretty massive w/ <5% thin (<1cm) CO ₂ bands							
140	85			140.4-140.48 QUARTZ-CO ₂ VEIN QCVN 40° contacts, 1cm dark green chlorite selvage on each side, center is Qtz + CO ₂ + possible Ksp (pink color, hard)							
141				140.48-141.5 BANDED GREEN TUFF TF3 same unit as above							
142	80			141.5-142.0 QUARTZ-CO ₂ VEIN QCVN similar to vein described above but without strong chlorite selvage. Pink mineral (Ksp?) concentrated near center of vein.							
143	75			142.0-144.5 BANDED GREEN TUFF TF3 same as abv, thinner bands, local deformation ("Z" fold at 142.2)							
144				142.85-142.92 Qtz vein							
145	70			144.5-144.8 QUARTZ-CARBONATE VEIN QCVN Qtz + white CO ₂							
146	60			144.8-145.4 BANDED GREEN TUFF TF3 same as above w/ 10% CO ₂ .							
147				145.4-146.3 BANDED APHANITIC RHYOLITE RHFS grey green aphyric silica rock							
148				146.3-159.4 ARGILLACEOUS RHYOLITE LAPILLI TUFF RHAT obvious lapilli tuff. 30-50% silicic lapilli ranging from 2x4 mm to 18x30 mm in size in a matrix of black argillaceous material. top 1.8 m is banded + more massive w/ thin green tuff bands. approx 10% of the lapilli are calcareous. texturally variable from 50%+ lapilli to <30% small lapilli in black matrix. core angle is pretty constant 60°							
149				149.1-149.2 Qtz vein							
150				151.5-152.1 Qtz + MnCO ₃ vein							
151				155.1-155.2 Qtz vein							
152				155.5-155.6 Qtz vein							
153											
154											
155											
156											
157											
158											
159											
160											
161											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
159.4-164.0				QUARTZ VEIN ZONE Dominantly white quartz veins w/some (<10%) late CO ₃ . Vein swarm contains several slivers of argillaceous tuff and fragmental rhyolite but is perhaps best logged as a vein zone. traces of pyrite but <5%							
160.8-161.3				argillaceous lap. tuff							
162.9-163.7				fragmental rhyolite vein swarm appears to be localized along the contact between argillaceous lapilli tuff and the underlying fragmental unit.							
164.0-200.0				FRAGMENTAL RHYOLITE grey to white silica fragments in a black to green-black matrix. wide size range in fragments - 1x2 cm to > core diameter, most have ragged to subround form and serrate margins. local strong tectonic deformation. pronounced shear bands spaced at 3-5 cm intervals throughout most of the unit. clast size appears to increase overall downhole. variable amounts of CO ₃ , usually as 3-4 mm thick veins + bands, <15% overall. Texturally quite variable with local interbeds of argillite and argillaceous lapilli tuff. mineralization consists of py and py 3-5% along foln and in matrix along clast boundaries. mineralized clasts uncommon. alteration is weak chlorite + minor CO ₃ , increasing downhole							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
185											
186											
187											
188											
189											
190	30%			190.3-190.5 Foliated mafic like w/ 3x2 cm clots of py							
191				196.5-199.0 CO ₂ increasing							
192				lt-med gry CO ₂ clasts and veinlets. 15%-20% of total.							
193											
194											
195											
196											
197											
198											
199				200.0-200.7 APHANITIC RHYOLITE							
200	20%			RHFS dk grey aphyric rhyolite, banded on 3-5 mm scale, top 10 cm chloritic.							
201				200.7-205.1 INTERBEDDED RHYOLITE / SILICEOUS							
202				RHAR ARGILLITE							
203				dk grey aphyric rhy interbedded w/ lam sil argillite, layering on mm-cm scale, platy "poker chip" fracturing along foliation. lower contact gradational + marked by end of argillite interbeds.							
204											
205	20%			205.1-210.1 BANDED APHANITIC RHYOLITE							
206				RHFS (R?) Aphyric banded grey rhy grading to banded green + white rhyolite							
207											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
208	✓			205.1-210.1 (continued) banding starts on mm scale and changes to cm scale at ~208 m.							
209	✓			fr py along foln.							
210	✓			210.1-210.14 FAULT healed bxx @ 35° to core axis							
211	✓			w/ angular frags of green rhy + 5-15% clots of pyrite. silica cement							
212	✓			210.14-239.5 BANDED GREEN/WHITE RHYOLITE							
213	✓			RHFL thick section of banded aphyric silica rock, med green + white							
214	✓			bands 0.5 - 1.5 cm thick, some of the white bands are lenticular, local lapilli < core diameter but mostly planar banded parallel to foliation. same rock as abv. fault @ 210.1							
215	✓										
216	✓										
217	✓			217.5 5cm wht CO ₂ band							
218	✓			218.2 2 cm tan CO ₂ band							
219	✓			218.3 10 cm wht CO ₂ band.							
220	✓			local bands 3-5 mm thick w/ semi-msv pyrite - euhedral xtals < 1.0 mm in size.							
221	✓			pretty uniform 70° core angle							
222	✓										
223	✓										
224	✓										
225	✓										
226	✓										
227	✓										
228	✓										
229	✓			229.6 12 cm qtz vein							
230	✓										

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
231				229.6-231.2 Quartz vein zone							
232				qtz flooding and qtz veins in green siliceous aphyric rhy.							
233											
234											
235											
236				236.5-239.5 broken core							
237				239.5-243.3 BLACK ARGILLITE							
238				ARMS platy laminated blk arg, local siliceous bands, pretty broken up core. tv - 5% py along foln.							
239											
240				243.3-244.4 QUARTZ VEIN							
241				QTVN white qtz vein - broken up core.							
242				244.4-245.5 BLACK ARGILLITE							
243				ARMS SQA, (239.5-243.3) green chl on fractures.							
244											
245				245.5-247.1 MASSIVE APHANITIC GREY RHYOLITE							
246				RHFS siliceous, sencitic partings some chl on fractures							
247				247.1-251.5 MAGNETITE POOR IRON FORMATION							
248				EXMT upper contact sharp based on 1st appearance of Mt. QV at l. cont.							
249				magnetite usu. massive and in distinct mm scale bands w some disseminations.							
250				usu. concentrated in discrete 20-30 cm intervals with grey massive oph. rhy. in between some altered to gyl/qm.							
251				near Mt bands. ocd chl bands.							
252				20cm qv with chl along fract. at base.							
253											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
254	✓	✓		251.5-260.3 MASSIVE APHANTIC RHYOLITE RHMS white-grey massive rhy. Occ sericitic partings 1-2mm gm-brown <1% py fg along partings							
255	✓	✓									
256	✓	✓									
257	✓	✓									
258	✓	✓									
259	✓	✓									
260	✓	✓		260.3-266.7 FAULT BRECCIA ZONE STFB highly ground up rhy. intact pieces show qtz frags in a ground up fine matrix. locally chloritic → 261.6-265.3 ground argillite (poor recovery)							
261	✓	✓									
262	✓	✓									
263	✓	✓									
264	✓	✓									
265	✓	✓									
266	✓	✓									
267	✓	✓		266.7-269.3 MASSIVE RHYOLITE RHFS badly broken, appears to be massive grey/green aphanitic rhy.							
268	✓	✓									
269	✓	✓									
270	✓	✓		269.3-272.9 FAULT GOUGE ZONE STGG ground up - (clay like) argillites (mod. carbonaceous) + rhyolites							
271	✓	✓									
272	✓	✓									
273	✓	✓		272.9-278.6 BLACK ARGILLITE - (poor recovery) ARMS massive well foliated + sheared black argillite ≈ 10% 1-2mm siliceous bands - microfolding < 1% py fills fractures and along foln.							
274	✓	✓									
275	✓	✓									
276	✓	✓									

BROKEN CORE

30°

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
277											
278											
279				278.6-285.6 MASSIVE APHANITIC GREY RHYOLITE RHFS occl 1-2mm brown micaceous partings (sericite), tr py.							
280											
281											
282											
283											
284											
285				285.6-285.9 MAGNETITE POOR IRON FORMATION EXMT 1-2mm MT bands w/ rhy (10-15%) some diss. MT							
286											
287				285.9-288.7 SILICEOUS ARGILLITE AND RHYOLITE RHAR sheared up mixture of aphanitic rhyolite on a mm scale lots of fractures + microfolds - some brecciation - locally abund. calcite as bands and splotches.							
288											
289											
290											
291											
292											
293											
294											
295											
296											
297											
298											
299											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
300				298.7-312.5 RHMS MASSIVE APHANITIC GREY/GREEN RHYOLITE							
301				sericitic partings, green halo surrounding occasional (3-4 cm apart) brown/green bands.							
302				otherwise glassy textured grey silica rock.							
303				some fracturing, tr. d. py.							
304											
305											
306											
307											
308											
309											
310											
311											
312				312.5-318.9 ARMS MASSIVE BLACK ARGILLITE							
313				black arg - massive, 1/6 py-clots on foliation.							
314											
315											
316				316.7-318.2 - gouge - poor recovery. quenching.							
317											
318											
319				318.9-332.4 RHMS MASSIVE APHANITIC GREY RHYOLITE							
320				SAME AS RHMS ABOVE.							
321											
322											

DEPTH (m)	CORRECTIONS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					Ser	chl	CO3	PSI	Pyrite	Sphal	CPY
365.5-368.2				STFL Argillite fault. gouge = Black							
368.2-369				APCB Black Carbonaceous Argillite - abund CO2 alt areas - locally siliceous clay aphanitic Siliceous Breccia - Thin pinnacled							
369-369.5				STFL Argillite Fault Gouge = Black							
369.5-370.3				SSMS - udy. Mass. Sulf.							
369.5-370.4				Fine grained massive Argillite in Co3 + coarse masses containing sub rounded to hor. brecc. in situ. Siliceous matrix							
369.8-370.3				Fs. massive to brecciated texture P4 scattered thin 0.5cm bands of sphal at 370.1 - 1m banded siliceous matrix containing isochlorite and other							
370.3-370.9				RNCL Chert - massive with small to upper mass. Sulf. - chert nodules siliceous - mostly siliceous - no pyrite Pyrite occurs in siliceous matrix Gln + dr. nodules in siliceous masses overlying Gln. 370.9-371.2: Siliceous mat/ lenses - Sph is not common in massive 1-2cm lenses - pyrite along Gln - strong sheared lensoidal texture in interval							
371.4-372.9				ABTF Argillite Serpentine Apillite Tuff - argillite component increases gradually - nod to very strong CO2 alteration - chl alt along along fracture - cont. sheared lensoidal texture - top 1/10 grades out to dr. chert Carbonaceous Argillite - mineralization is locally semi-massive 372.4-372.6 + 372.1-372.2 (pyrite) No pyrite - local clay bands of sphal in CO2 gouge							
372.5-373				ABTF Carbonaceous Black Argillite Breccia ← 2cm semi-massive Argillite in a clay matrix Sharp chert in lower massive Sulf. lens							
373-375.2				SSMS							
373-373.56				373-373.56: Zone of mottled Pyrite to massive fig. Pyrite - 1-2cm bands of Sphal = net - locally networked CPY veins							
373.56-374.19				373.56-374.19: P4 viny P4 - fig. - wispy scattered sph masses - Shear text bands in Sulf along Gln - Tetrahedrite v. at 374.7.							
373.56-374.91				373.56-374.91: Area P4 = scatt sphal wispy + cp/ networked masses - fig. P4 vs v. fig. P4 CO3 veins - locally vuggy							
374.19-375.2				374.19-375.2: 10cm Zn rich zone							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
HWALU		3682	3695	1.3	105499				
SSMS		3695	3698	1.39	105500				
SSMS		3699	3703	0.41	125051				
Mineral Ser ch lap schist		3703	3714	1.1	125052				
ARTF		3714	3725	1.1	125053				
ARLB		3725	3733	0.8	125054				
SSMS		3733	3736	0.26	125055				
SSMS		3736	3747	0.63	125056				
SSMS		3747	375	0.81	125057				
SSMS		375	375.2	0.2	125058				
Ser chl lap schist		375.2	375.5	0.3	125059				
" "		375.5	3764	0.9	125060				
FW Argillite ARTA		3764	3772	0.8	125061				
ARSC		3772	3786	1.4	125062				
ARSC		3786	380	1.4	125063				
ARTF		380	380.5	0.5	125064				
ARSC + Qtz vn		380.5	3819	1.4	125065				
RNCT		3819	3837	1.8	125066				
RNCT		3837	3862	2.5	125067				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sph	cp1
					Ser	Chl	CO ₂	Si	Pc		
384				384.15-385.2: Last 20cm of interval is mottled ep1 Banded Chl-ser + lapilli. Fe Tuff RHCT							
385				interbedded Spongy ep1. transitional below mass. calc. - decreases with depth - 1/4 m Bands in chl. frags. are interbedded. in Chl schist							
386				+ locally appear as calc. lapilli - scattered. Pyrrhotite commonly occur. in ep1							
387				Lower chert 25-30cm at base							
388				386.4-388.0 ARTP Argillitic fine gr. - dr. gray tuffaceous interbedded - Sharp lower chert							
389				388.0-390.0 ARSC Chaotic Carbonate thin lapilli Tuff - local Bands at argillite							
390				Strong CO ₂ alt - locally also silica lenses/Bands - Scattered by masses clay swirling textured folia							
391				63 ak magnetites - Breccia / Frag texture thin Bas. strongly sheared							
392				390-390.5 ARTP dark gray to gray argillite Tuff - sharp upper chert. banded gray CO ₂ alt tuff?							
393				interlayered with thin argillite + minor silica Bands - chert py is common - at CO ₂ mass at lower chert							
394				390.5-391.5 ARSC Carbonate some to altered Tuffs							
395				66 lt gray - cry Bands + lenses of CO ₂ alt. tuffe when banded + eg. Chl + Ser Schist							
396				391.5-394.2 RHCT Gray green to green Chl-Ser schist + lapilli - Wolverine Fe Typeschist							
397				67 inter-bedded Bands + CO ₂ + lenses are inter-layered - lt to dark green gray to green - dr. Bands of Pyrrhite along the foliation decrease in depth + occur above 391.5 - at 391.5							
398				thin Bands of Sph + Pyrrhite occur along the foliation - thin 1/4 Argillite bands occur at 391.8 over 20cm interval - by 392.2 1cm long or stain feld band at 394.6 - at 392m - amorphous silica mass - locally there appear trans pos. - Scattered disc. masses of Pyrrhite - 390.4							
399				70 394.2-400.8 RHST Banded Ser-chl Schist - granular Bands + lenses - chaotic grading out + some the downwardly - locally Bands appear to be flattened lenses							
400											
400.8											



RHCT

RHST

400.8
Baku

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverine Deposit	GROUND ELEV. 1487.4
HOLE NO. WU9649	BEARING 180 (GRIN) 0
LOCATION 16800 E 16955 N	DIP -63.5 60
	TOTAL LENGTH 472.4
LOGGED BY John Breedlow	HORIZONTAL PROJECT
DATE 8/14/96 START	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE NQ → 118.56, NQ →	
DATE STARTED 8/14/96	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (m)	CORING UNIT	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	Chl	CO ₃	Si	Po	Pyrite	Sphal	Cu
				22.7-23.3 Fault								
	STFL			STFL Argillite gänge + str. var fragments								
23	ARTF			23.3-24.6 Tuffaceous argillite - w. gto-fab + CO ₂ bands - CO ₂ masses + v.lets at 23.9-24.0.								
24	QTVW			24.6-25.8 Quartz var. mass - mchy white nod rusting - non-arg inclusions Chl-Ser sandy inclusions locally								
25				25.8-26.7 Banded Blk argillite + gray - greenish gray cherty tuff + Rhyolite - Rhyolite + tuffaceous bands are <1-2cm as are the cherty to Black Argillite - chlorite + Sericite alteration locally on folia								
26				26.7-30.7 Rhyolite is common as flattened masses along the foliation + in brown as v.lets ±10cm to 15cm gto var masses occur locally - Folia along Fria + Coln still common								
27				30.7-36.7 - thin tuffaceous + Rhyolite bands + layers commonly show shear banding + folds - Argillite decrease to depth + pred. aph Rhy-cherty tuff + arg patches gray mchy to Ser								
28				36.7-51.6 Aphanitic gray to green gray Rhyolite -								
29				TFI - Predominantly brown to brownish green Ser + Chlorite Partings (TFI) eg. by oxidizing along the folia may give the brown tint								
30				50 - Folia acute + parallel to Band (compositional). (39.2m)								
31				40 - pyrite occurs along the foliation + on dist. masses								
32				41 - Coln is phyllitic + commonly Chlorite + Sericite								
33				42 - Massive non-foliated - v. chly foliated chert/Rhy up to 20cm occur locally in this interval								
34				43								
35				44								
36				45								
37				46								

DEPTH (m)	CORING Notes	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	C
					Ser	chl	CO ₃	Sil	Pc		
70				TF1 Tuffaceous - brown-greenish brown well-soliated component at the interval as is the fine-grained Pyrite - thin pyrite masses along the folia.							
71											
72				TF1 - gray-green chert-like bands - lenses have decreased & are predominantly lenses locally appearing to be lapilli.							
73											
74											
75				STFL 74.5-75 Fault gouge - immediately below gouge is a silty sand underlying bottom up							
76											
77				75-84.0 TF1 Banded Tuffaceous Brown to grayish green schist with pyrite & bands & lenses of gray to gray green siliceous - similar to TF1 above fault							
78											
79				TF1 - Fine chlorite spalling along the folia - pyrite							
80											
81				TF1 - Lower fault contact appears faulted along the foliation -							
82											
83											
84				STFL 84.1-84.5 Fault Gouge & Fire Rock all to chl + Sericite							
85				TF1 84.5-87.5 Banded gray to gray green chert - Rhyolite enclosing in width & in amount							
86											
87				TF1 - Brown Sericite bands decrease							
88				TF1 - Fine elongate pyrite lenses along folia - chert - fault or transport along							
89				STFL 87.5-88 Fault - mostly chlorite & pyrite							
90				TF1 88-90.9 Lenses of gray-green chert - Rhyolite Banded in thin ser-chlorite well foliated bands							
91											
92				TF1 - Pyrite is common along folia & chlorite - many CO ₃ bands							
93				TF1 - Grades down into chert-like argillites							
94				RHA 90.9-92.6 Banded light gray siliceous silt - unreddish CO ₃ - thin argillite							

STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
		Ser	chl	CO ₂	Si	P/mt	Pirite	Sphal	CPY
114.9-115.5	Qtz in clay foliation								
115.5-116.7	Argillaceous Rhyolite lapilli								
ARWT	Tuff - subrounded - sub angular stratified frags								
116.7-118.2	Dark gray Siltstone - locally wackebk - possibly tuffaceous								
SIST-ARWK	Qtz along folia = conchoidal filling frags								
118.2-118.6	Dark gray Silt - wackebk locally								
118.6-119.8	possibly tuffaceous								
SIST-ARWK	Qtz in wackebk along the foliation								
119.8-120.4	Qtz filling frags + chl								
120.4-122.2	Dark gray - gray Siltst - wackebk + tuff component								
SIST-ARWK									
122.2-122.6	Qtz in wackebk along the folia - conchoidal								
ARWK									
122.6-125.4	Gray - dark gray siltst - wackebk - minor tuff component								
SIST-ARWK									
125.4-125.4	Qtz vein along the foliation								
ARWK									
125.4-139.7	Gray Tuffaceous wackebk - locally thin bands of black argillite - locally thin silty white stratified CO ₂ - locally minor argillite - some + silt in frags (23cm) - fine-grained wackebk + texture (not uniform grain size) - fine saccate mass (tuffaceous component?) - Pirite occurs predominantly along fractures - locally along foliation + rarely disseminated - increasing thin CO ₂ white banding toward the end of the interval								
ARWK									

2
33
134
135
136
137

ARWK

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		325.9	327.2		175039				
		327.2	328.9		175040				
		328.4	330.2		175041				
		330.2	331.3		175042				
		331.3	331.5		175043				
		331.5	332.5		175044				
		332.5	334.4		175045				
		334.4	336.6		175046				
		336.6	338.3		175047				
		338.3	339.8		175048				
		339.8	340.5		175049				
		340.5	342.6		175050				
		342.6	343.9		105651				
		343.9	346.1		105652				
		346.1	346.7		105653				
		346.7	348.4		105654				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	Chl	Clay	Sil	Pol/mt	Piprite	Sphal	CPY
342.9-343.9	RHEV			Banded grey to tan chert in thin sin								
343.9-346.1	RHEV			in sharp contact w lower folia Massive to laminar lg								
346.1-346.7	RHEV			MT w iron & pred siliceous w wk-red CO ₂ + minor chert - Py occurs in the bands along the foliation Probably fine Black argillite interval								
346.7-347.8	RHEV			Siliceous Argillite to Siltstone Pelite w red pyrite folia - trace pyrite and of Fe ₂ O ₃ in the lower interval								
347.8-352.7	RHEV			Banded grey to tan chert w fine argillite - siltstone boundary								
352.7-353.9	RHEV			Broken + Gouged Argillite - Pelite Siltstone								
353.9-356.9	RHEV			Dark grey to black argillite - Siltstone - in the bands (max scale)								
356.9-359.2	RHEV			Broken + Gouged Argillite - Siltstone + Broken up at 2 m								
359.2-366.1	RHEV			FAH + Zone w in the Argillite - Pelite interval - Scattered Broken white Sts w gouge - Also 1-2 m Argillite gouge intervals - pg is diss through the gouge + Broken core								
366.1-372.2	RHEV			Banded aphyre siliceous - sericite + chlorite partings								

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Sar	Chl	CO ₂	Sil	SO ₄	P ₂ O ₅	Sph	CP
387.1-387.3				Argillite fault gouge (STPL)								
387.35-387.6				Banded black argillite w/ calc. sericite schist								
387.6-389.5				Green to dk grey argillite - STPL calcareous sericite schist - locally mostly argillite (the first 30cm)								
389.5-390.9				Fault - Argillite to locally sericite gouge								
390.9-391.5				well foliated sericite-chl calc schist - soft & slightly gouge								
391.5-393				Fault - include Brecciated - STPL - gouged calcareous argillite + sericite schist								
393-393.2				QUAN-QTCORVA across foliation at low angle								
393.2-394.4				Calcareous fault to S. later w/ ARSC bands of sericite schist +								
394.4-400.4				dk grey argillite horizon white calc bands along folia + aphyxitic masses assoc w/ g + CO ₂ - mm dss								
400.4-402.4				Banded to fragmented aphyxite silica + schist w/ black argillite pale matrix - inner thin grey calcareous bands locally - part of matrix veins or related to silica banding - py diss along foliation - contacts are gradational								
402.4-413.2				THAT Thick sequence of banded to lenticular aphyxite silica + thin sericite chlorite partings - to locally matrix grey py green aphyxite silica - pyrite occur along sericite partings - dk green to blue green chlorite common along fractures - soft white to yellowish spalling common in the silica bands.								
413.2-415				with depth argillite - sericite inter beds + thin cracks into predominantly argillite inter beds at the lower interval.								
415-415.2				Banded aphyxite silica + the argillite								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
ARTF		4497	4517	2.0	105665				
ARTF		4517	4537	2.0	105666				
ARCB		4537	4556	1.9	105667				
STPL		4556	4581	2.5	105668				
ARMS		4581	4584	0.3	105669				
CSMS		4584	4597	0.37	105670				
CSMS		4597	4626	1.44	105671				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	chl	CO ₃	Si	Pyrit	Sphal	Cp	
438	RHAT			438.7-439.2 RHAT Slightly Cracked sericite partings + Bands with aphyre								
439				up to grey green silica - py masses are scattered with								
440	STGC			439.2-439.5 STGC - Fault gouge								
441				439.5-440.7 Aphyre py silica Banded or Argillite + Sericite - Broken core common								
442	STFL			440.7-442.3 Fault - Attached grey + Broken Argillite + Siliceous core								
443				440.3-443.9 Black to dark grey silty argillite locally to show dis. py + shunry								
444	ARMS			443.5-445.7 STGC - Fault Gouge + Broken Core								
445				445.7-445.7 Black to dark grey Argillite mass ch. alt. along folia - scattered gouge + Broken zones silica								
446	STFL			446.2-446.3 Fault - Argillite gouge + Broken core - mass ch. alt.								
447				446.3-449.7 Black argillite - thin silty cor Bands + mass - some of these may be Lapilli C.S. scattered dis. py								
448	ARMS											
449												
450	ARTF			449.7-452.7 Banded argillite sericite tuff in mass silty-tuffaceous carbonate bands								
451				452.7-453.7 silty-tuffaceous sandy bands are sericite rich - no argillitic bands appear								
452	STFL			453.7-455.6 Banded Black Argillite + grey silty + CO ₃ - strongly dis. to semi-massive pyrite bands scattered in interval & increasing in depth - at base end of net thin wisps of sph along folia down								
453				455.6-458.1 Fault - Broken + gouged Argillite core - grey cor. in upper part - ch. alt.								
454	ARCB			458.1-458.3 Black argillite + about thin carb. bands up to 1cm massive py + sph bands								
455				458.3-458.4 STGC - Argillite + pyrite Flk gouge								
456	STFL			458.4-462.4 SSMS massive sulcrade								
457												
458	ARMS											
459												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>SSMS</i>		<i>462.6</i>	<i>462.6</i>	<i>0.5</i>	<i>105672</i>				
<i>SSMS</i>		<i>462.6</i>	<i>461.52</i>	<i>1.52</i>	<i>105673</i>				
<i>SSMS</i>		<i>461.52</i>	<i>462.22</i>	<i>0.7</i>	<i>105674</i>				
<i>SSMS</i>		<i>462.22</i>	<i>462.92</i>	<i>0.88</i>	<i>105675</i>				
<i>RHCT</i>		<i>462.92</i>	<i>464.5</i>	<i>1.4</i>	<i>105676</i>				
<i>P/SM</i>		<i>464.5</i>	<i>464.9</i>	<i>0.4</i>	<i>105677</i>				
<i>RHST</i>		<i>464.9</i>	<i>467.4</i>	<i>2.5</i>	<i>105678</i>				
<i>RHST</i>		<i>467.4</i>	<i>468.6</i>	<i>1.2</i>	<i>105679</i>				
<i>RHST</i>		<i>468.6</i>	<i>470.9</i>	<i>2.3</i>	<i>105680</i>				
<i>RHST</i>		<i>470.9</i>	<i>472.4</i>	<i>1.5</i>	<i>105681</i>				

Diamond Drill Hole WV9649

Summary of Log Intercept

458.4 -463.1 Meters



Avg. Core Angle 52.0°

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
453.7	455.6	1.9	Hanging Wall Carbonaceous Argillite Well-foliated, dark grey to black, graphitic argillite. Thin mm scale, grey lenses of calcareous siltstone argillite or possibly carbonate exhalative "tiger-stripe" the interval. Pyrite is fine-grained and disseminated in the black argillite and almost semi-massive in the carbonate bands. Pyrite bands increase with depth. Last 20cm of the interval contains thin wispy pyrite bands.
455.6	458.1	2.5	Fault-Argillite Gouge and Quartz + Carbonate Veining Broken and gouged argillite core with scattered calcareous chips quartz-carbonate veining. Moderate disseminated pyrite.
458.1	458.3	0.2	Argillite Black argillite with abundant mm thick calcareous siltstone bands. Semi-massive to massive pyrite +/- sphalerite bands are up to 2cm in thickness and have a carbonate rich gangue content.
458.3	458.4	0.1	Fault Gouge Argillitic and pyritic fault gouge. Weakly calcareous.
458.4	458.77	0.37	Pyrite Rich + Sphalerite Massive Sulfide Upper contact is interbanded with thin argillite and calcareous tone bands. Banded pyrite + sphalerite massive sulfide. Sphalerite are less than 0.5cm and also occur as laminations with pyrite in zones up to 2cm. Very fine-grained tetrahedrite occurs with the sphalerite. Moderate carbonate gangue + silica. Mottled gangue texture gives banding texture locally. Carbonate veins are almost perpendicular to banding.
458.77	460.26	1.51	Pyrite Rich Massive Sulfide Very fine-grained pyrite with bands and wisps of fine-grained to fine-grained buckshot pyrite. Sphalerite bands are at the mm scale and scattered about the interval. Moderate carbonate gangue. Black chlorite spotting occurs over the lower 20cm of the interval.
460.26	460.76	0.5	Sphalerite Rich Massive Sulfide Sphalerite bands are \leq 2cm and commonly contain disseminated pyrite and scattered black chlorite. Thin trains of black chlorite and dark grey green sericite-quartz are common. Carbonate gangue is weak to moderate. Tetrahedrite is locally present with sphalerite. Pyrrhotite is finely disseminated and scattered about the interval.

460.76	461.52	0.76	<p>Pyrite Rich Massive Sulfide Very fine-grained with thin fine-grained bands of pyrite, locally buckshot in texture. Scattered mm scale sphalerite bands. Silica gangue masses have networked chalcopyrite. Chalcopyrite is locally present rimming mottled silica gangue. Weak carbonate gangue and minor pyrrhotite.</p>
461.52	462.22	0.7	<p>Black Chlorite Rich Massive Sulfide Banded fine-grained pyrite and coarse chains of black chlorite. These are interbanded with numerous, well-foliated, green-grey, mm scale sericite bands. Minor scattered sphalerite bands. Lenses and scattered bands of carbonate (lapilli ?). Last 10cm of the interval are chalcopyrite and pyrrhotite rich being associated with quartz and carbonate veining and masses.</p>
462.22	463.1	0.88	<p>Pyrrhotite Rich + Chalcopyrite Massive Sulfide Predominantly pyrrhotite and pyrite bands interbanded with fine-grained pyrite and wisps of chalcopyrite and sericite banding. Moderate to abundant carbonate gangue. Lower contact is broken but appears to be conformable along the foliation.</p>
463.1	464.5	1.4	<p>Chlorite Schist Strong chlorite alteration with a variable carbonate content. White to grey tuff bands and lenses and fine fragments of sheared tuffaceous siltstone or tuff. Black chlorite bands and fragments common. Chalcopyrite bands occur with the black chlorite +/- pyrrhotite. Disseminated and massed pyrite is common. Minor siliceous fragments and lenses.</p>
464.5	464.9	0.4	<p>Banded Semi-Massive Sulfide Banded semi-massive to massive sulfide and sericite with minor carbonate. 1-2cm pyrite + sphalerite +/- chalcopyrite +/- black chlorite. Minor disseminated pyrrhotite.</p>
464.9	472.4	7.5	<p>Sericite Schist Sericite schist locally banded with chlorite schist. Scattered lensoidal tuffaceous lapilli. Pyrite is weakly to moderately disseminated.</p>

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE Deposit	GROUND ELEV. 1505.2
HOLE NO. WU 96-50	BEARING 180 smd
LOCATION 17097 N 16500 E	DIP -63
	TOTAL LENGTH 397.46
LOGGED BY J. Breedlove	HORIZONTAL PROJECT
DATE 8/14	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE HQ → NQ → 397.4	
DATE STARTED 8/12	
DATE COMPLETED 8/17	
DIP TESTS	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
156.5-170.5				(continued)							
163				large fragments(?) > core diameter							
164				clast content ↓, matrix ↑ downhole							
165				minor CO ₂ , matrix becomes banded w/ minor pyrite							
166				strong shear fabric, clast margins look stylonitic.							
167											
168				170.5-173.2 PALE GREEN STRIPED RHYOLITE							
169				RHAT striped/banded aphyric rhy w/ sericite							
170				partings, local lenses of silica (lapilli?) but mostly mag to banded on mm - cm scale.							
171				173.2-181.4 FRAGMENTAL RHYOLITE							
172				RHFR grey clasts/black matrix, clast content lower than in above							
173				fragmental units, matrix locally > 60%, clasts also smaller than abv units.							
174				greater sed component							
175				lower contact gradational							
176				176.0 4 cm dk green band (clast?)							
177				10% py + pφ, weakly magnetic							
178				181.4-182.5 BANDED ARGILLACEOUS LAPILLI TUFF							
179				RHAL lt green colored tuff w/ lenses and bands of cream to white silica. matrix content sericitic and becomes argillaceous downhole							
180				lapilli (lenses of silica) ~ 1x3 cm to 1.5x4 cm in size, sericitic margins.							
181				matrix more argillaceous below 186.9							
182											
183				lower contact arbitrary + gradational							
184				based on absence of well defined lapilli.							
185											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
				RHMC (cont'd)								
186												
187												
188				187.3-189.1	Grey CO ₂ bands ~ 40% of interval, up to 10 cm thick also x-cutting CO ₂ extensional veins + stringers to 2mm wide							
189												
190				190-192.5	more thinly banded + > 60% matrix argillite, still very siliceous.							
191												
192				192.5-212.5	BANDED GREEN/WHITE RHYOLITE							
193				RHAT (RHMC)	striped + banded green + white aphyric silica rock, mod chl altn. white bands often somewhat kinked							
194					top of unit is laminated to thickly banded chlorite rhy. banding is well developed below 193.2m							
195												
196					contacts between green + white bands are wavy and undulose.							
197												
198												
199				199.7	15cm qtz vein, broken core							
200												
201					mineralization py on late fets and also in thin smeared stringers parallel to foliation							
202												
203												
204												
205				205.5	banding grades into thinner 2-3mm thick alternating green/white. minor CO ₂							
206												
207												
208												

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	Cpy
					Ser	chl	CO ₃	Sil	Polym		
342.5-347.3	ARCB			Black carbonaceous Argillite. locally siliceous with thin light white CO ₂ alt. to flaccid bands. Siliceous bands. These often contain disc to S + strongly disc pyrite. Locally string CO ₂ alt. in bands of pyrite.							
347.3-348.8				STG - Argillite - locally string CO ₂ alt. in bands of pyrite.							
348.8-349.85				STG - Argillite - locally string CO ₂ alt. in bands of pyrite.							
349.85-350.4				STG - Argillite - locally string CO ₂ alt. in bands of pyrite.							
350.4-351.4	RHST			Banded Sericite - schist							
351.4-352.4				is scattered. Id. grains + lapilli. - Scattered thin bands of pyrite along folia. + locally (at 348.3) 2cm wide - at 349.2 1-3cm siliceous rounded breccia							
352.4-353.4				- locally siliceous + chl - minor gouge at 349.4 - green chl fragments occur in some bands - lower etc. is gradational							
353.4-354.4											
354.4-355.4											
355.4-356.4											
356.4-357.4											
357.4-358.4	RHSR			Sericite globular lapilli with CO ₂ alt. of the lapilli							
358.4-359.4				- Lapilli are on scale to some 3cm elongate along the folia. Some bands may actually be coarse lapilli.							
359.4-360.4				- locally siliceous + locally argillite (lapilli) here pressure shadows.							
360.4-361.4											
361.4-362.4											
362.4-363.4											
363.4-364.4											
364.4-365.4											
365.4-366.4											
366.4-367.4											
367.4-368.4											
368.4-369.4	RHST			Banded Sericite schist with siliceous + CO ₂ bands + lenses of ...							

DEPT	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	CH	CO ₂	Sil	Polart	Sph	CPY	
				367.4-373								
370	RNS1			RNS1 Thinly Banded Sarcite + siliceous tuffaceous Bands								
371				- Pyrite occurs along foliation								
372					- locally magnetite							
373				Sharp thin to deep lower Mg schist								
				373-383.6								
374	ARTF			ARTF Thinly Banded tuffaceous Sarcite + tuffaceous								
375				Argillite - bed. disc + massed pyrite								
376					- minor con. rich massed							
377					+ Bands							
378					- Thin Bands of Sarcite ± chlorite increase w/ depth + grade into lower RNS1 (380.1-380.6)							
379												
380												
				380.6-382.2								
381	RNS2			RNS2 Banded Sarcite + Sarcite Lepidolite schist - at lower contact Lepidolite Bands are gray tuffaceous material are con. rich								
382				intermittent fine disc. Py								
383												
				383.2-386.2								
384	ARSC			ARSC Fine grained Sarcite calcareous altered tuffaceous Argillite								
385				- Banding w/ depth in a newly tuffaceous Argillite								
386												
				386.2-387.9								
387	ARTF			ARTF Tuffaceous Argillite gray to gray but not quite a fit								
388				387.9-388.2 STFL Fault - Black Argillite gouge + Broken Core								
				388.2-390.6								
389	ARTF			ARTF Thinly Banded tuffaceous Argillite minor thin con. Bands								
390												
				390.6-393.3								
391	STFL			STFL Fault zone w/ Pred. tuff. argillite - Abund. fit								
392					Gouge + Broken Core + Broken							

000500

**1996 SUMMARY REPORT ON THE
FOOT 1 - 20, 37 - 80, 83 - 94, 180 - 188, 215 - 231,
11A - 12A, KINK 3, LOW 13 - 14**

**7.0 DRILL LOGS
VOLUME 3**

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverham Deposit	GROUND ELEV.
HOLE NO. W096-52	BEARING
LOCATION	DIP
	TOTAL LENGTH 405.1 meters
LOGGED BY J. Breedlove	HORIZONTAL PROJECT
DATE 8/19/96	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE
CORE SIZE 14Q → 23.16 / NQ →	
DATE STARTED 8/18/96	TOTAL SULPHIDE SCALE
DATE COMPLETED 8/25/96	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION								
					Sier	Chl	CO ₂	Sil	Ca/Mt	Fe/Mn	Sphal	Cpy	
70				68.5-79.9 SST. Pod. 11. py to pyg s/stone locally w a wackey texture									
71				-Argillite bands increase w depth + the s/st/wacke bands become lenses locally									
72	S												
73	L												
74	S												
75	T												
76					Thin ss scale sericite bands are present with lower portion of the interval - as does CO ₂ alteration								
77													
78					- Lower contact is gradational w green tuff.								
79													
80	T				79.9-82.2 TFY - Variously calcareous green tuff - Bands of white to light grey calc with s/st/tuff or scattered through interval - lower portion is much less calcareous								
81	F												
82	Y												
83													
84	A				82.7-86.1 ARGT - Thinly banded s/st/tuff pyg - 11. pyg - Black argillite - - Scattered sericite bands - lower 1.5 meters have increased calcareous green tuff bands - some bands have con pinkish spotting (Fe ₂ O ₃)								
85	R												
86	G												
87	T				86.1-86.6 PTV - Qtz vein w chl matrix + CO ₂ along fracture								
88													
89	S				86.6-91.2 SLSF - Black argillite to drt pyg s/st/wacke - thin calcareous bands								
90	L												
91	S												
92	T				88.4-89.3 - interval of calcareous s/st w thin black argillite								
93					89.3-90.3 - Sericite argillite - s/st.								
94					90.3-90.8 - Calcareous s/st. w thin ARG bands								
95	ARPT				90.8-91.2 - Banded sericite - s/st + argillite								

Diamond Drill Hole WV9652
Summary of Log Intercept
 373.2 -377.6 Meters
 Avg. Core Angle 55.0°

<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Description</u>
366.85	371.5	4.65	<p>Hanging Wall Siliceous Argillite Well-foliated, dark grey to black, siliceous silty argillite. With depth calcareous to non-calcareous grey siltstone bands become amorphous. Sinuous dark grey aphyric silica bands and lenses are scattered about the interval and are roughly along the foliation. Pyrite occurs as strongly disseminated masses within the silica bands and disseminated within the silty bands and along the foliation in argillite. Weakly magnetic locally. Probably pyrrhotite. Lower portion is mostly moderate to strongly calcareous siltstone.</p>
371.5	373.2	1.7	<p>Hanging Wall Carbonaceous Argillite Hanging wall black carbonaceous argillite with scattered < 1cm calcareous siltstone bands. Less siliceous than the above interval. Strongly disseminated to semi-massive pyrite occurs in calcareous siltstone and aphyric siliceous bands. Lower contact is gradational with the massive sulfide intercept. Black argillite is banded with semi-massive to massive pyrite over 10cm.</p>
373.2	373.9	0.7	<p>Pyrite-Rich + Sphalerite Massive Sulfide Very fine to fine-grained massive pyrite interlayered with wispy bands of the red-brown sphalerite. The fine mottled texture is due to gangue spotting. Carbonate gangue is predominant over the first 25cm of the interval. Gangue over the rest of the interval is predominantly barite, silica, sericite and scattered dark green to black chlorite flakes. Chalcopyrite networked masses +/- pyrrhotite are minor and form around mottled gangue masses.</p>
373.9	374.18	0.18	<p>Pyrite + Sphalerite + Chalcopyrite-Rich Massive Sulfide Banded pyrite, <math>\leq 2\text{cm}</math> sphalerite bands and coarse mottled silica and sericite +/- barite gangue. Pyrite is fine-grained to locally "buckshot" in texture. Networked chalcopyrite masses are common rimming the coarse mottled gangue. Minor pyrrhotite is associated with the chalcopyrite.</p>
374.18	375.61	1.43	<p>Pyrite-Rich Massive Sulfide Very fine to fine-grained pyrite with scattered wispy to sharp edged bands (< 2cm) of sphalerite and pyrite. Fine disseminated tetrahedrite is associated with the sphalerite bands. Fine-grained chalcopyrite masses. Fine-grained sparkly buckshot texture against very fine-grained pyrite. The last 54cm have a strong carbonate matrix.</p>
375.61	376.19	0.58	<p>Semi-Massive Pyrite Banded < 0.5cm fine-grained pyrite and mottled silica + sericite + carbonate gangue. Locally dark chlorite + quartz spotting. At 375.85 a 10mm aphyric quartz vein is rimmed with chalcopyrite and contains</p>

0.5cm euhedral subhedral sphalerite masses. Minor tetrahedrite, galena and chlorite are also associated with this quartz vein.

376.19 377.6 1.41

Pyrite + Sphalerite Rich Massive Sulfide

Fine-grained sparkly pyrite with mm to 2cm scale banded sphalerite with fine disseminated tetrahedrite. These bands are moderately abundant and in sharp to wispy contact along the foliation with pyrite. Chalcopyrite is present rimming mottled silica + carbonate. Dark green to black chlorite + quartz spotting is scattered about the interval. Lower contact is sharp along the foliation.

377.6 379.2 1.6

Footwall Felsic Tuff

Weakly calcareous with moderately abundant networked chalcopyrite masses. Fine disseminated sphalerite masses are scattered about the interval. Weakly to moderately magnetic. Probably pyrrhotite. Abundant aphyric silica veining at lower contact.

379.2 380.8 1.8

Mottled Chalcopyrite-Rich Massive Sulfide

Thinly banded chlorite and sericite schist with thin, scattered argillite calcareous siltstone bands. Strongly calcareous throughout the interval. Pyrite is finely disseminated.

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DRILL LOG

PROJECT Wolveesink	GROUND ELEV. 1492.3
HOLE NO. 9653	BEARING 180 GN
LOCATION 1709.0 16451.7	DIP -70
	TOTAL LENGTH 341.07 m
LOGGED BY John Breedlove	HORIZONTAL PROJECT
DATE Aug 26 - Aug 31	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE
CORE SIZE HQ → 2.6m / NQ 341.07	
DATE STARTED 8/26/96	TOTAL SULPHIDE SCALE
DATE COMPLETED Aug 26, 1996	
DIP TESTS	
COMMENTS Scattered VMS Horizontals - massive to semi-massive Semi 320.9 - 322.2 Semi 322.6 - 323.3 massive 325.2 - 326 <hr/> massive 324. - 324.0 massive 323.8 - 325.15 Semi-massive 325.12 - 322.5 or some of the schist	LEGEND

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Sar	Chl	CO ₃	Si	PO ₄ /Mt	P. phosphate	Sphal	CPY
24.46	STFL			23.5-24.7 Fault Zone: Broken oxidized Core + fresh argillite gouge								
25	NEWT			24.1-24.7 - Banded argillite + green tuff + scattered st vns								
26	ADTT			24.7-32.8 Green andesitic Green tuff - scattered bands of aphyic silica vns -								
27												
28				- top of the interval is variably calcareous (1st 2 meters)								
29				these are predominantly in calc bands of calcareous siltstone + argillite								
30				Bands - also chert disseminated (release of chl grade metamorphism?)								
31				- locally calc argillite bands along the folia.								
32												
33				- Pyrite is shown finely d.s.s.								
34												
35												
36												
37				Lower contact is sharp along the foliation with a sedimentary unit								
38												
39	SLST			32.8-49.3 Predominantly dark gray siltstone + argillite to locally fine-grained wacke								
40				- Scattered intervals of calc of black argillite are common over first 3 meters but are rare common over the rest of the interval.								
41												
42												
43				- locally thin white-gray calcareous siltstone (wacke) are abundant. ~ 39-34.8 + at 45.3-46 meters - fine d.s.s. are rare.								
44												
45												
46												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS		
		FROM	TO	WIDTH				
<i>P-ISM</i>		<i>320.9</i>	<i>322.2</i>	<i>1.3</i>	<i>105701</i>			
<i>RHCR</i>		<i>322.2</i>	<i>322.6</i>	<i>0.4</i>	<i>105702</i>			
<i>P-ISM</i>		<i>322.6</i>	<i>323.3</i>	<i>0.7</i>	<i>105703</i>			
<i>P-ISM</i>		<i>323.31</i>	<i>324.24</i>	<i>0.93</i>	<i>105704</i>			
<i>RHAR</i>		<i>324.24</i>	<i>325.2</i>	<i>0.98</i>	<i>105705</i>			
<i>SSMS</i>		<i>325.2</i>	<i>326</i>	<i>0.8</i>	<i>105706</i>			
<i>RHAR</i>		<i>326</i>	<i>326.5</i>	<i>0.5</i>	<i>105707</i>			
<i>RHCR</i>		<i>326.5</i>	<i>326.7</i>	<i>0.2</i>	<i>105708</i>			
<i>STFL</i>		<i>326.7</i>	<i>327</i>	<i>0.3</i>	<i>105709</i>			
<i>RHCR+QVN</i>		<i>327</i>	<i>328.2</i>	<i>1.2</i>	<i>105710</i>			
<i>ARSL</i>		<i>328.2</i>	<i>331.3</i>	<i>3.1</i>	<i>105711</i>			
<i>RHST</i>		<i>331.3</i>	<i>333.45</i>	<i>2.15</i>	<i>105712</i>			
<i>RHTP</i>		<i>333.45</i>	<i>335.2</i>	<i>1.75</i>	<i>105713</i>			

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
				335.2-335.8								
				STFL	Fault - Argillite gouge + Broken Core							
				335.8-338.1	Fine Banded to laminated							
				RHAR	variously calcareous silt + siliceous phsp? white Bndd w/ Black Argillite							
				338.1-341.8	Banded Serrate Schist							
				RHST	w/ Bands of Argillite + calcareous silt locally scattered along + 10cm interval of CO ₂ Breccia mass - Py is Crsf. diss.							
					Bd. w/							

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DRILL LOG

PROJECT <i>Wolverne</i>	GROUND ELEV.
HOLE NO. <i>9654</i>	BEARING
LOCATION	DIP
	TOTAL LENGTH
LOGGED BY <i>J. Breedlove</i>	HORIZONTAL PROJECT
DATE	VERTICAL PROJECT
CONTRACTOR <i>CARON</i>	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE <i>HQ → 7.6m / N4 →</i>	
DATE STARTED <i>8/27/96</i>	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (M)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION								
					Ser	chl	CO ₃	Sil	Fe/Al	P-ox	Sph	CP	
0-2				DHLC Casing to 2.6 meters									
2-16.2				Fe Fm - Collapsed in Fe Fm EXPT									
				Banded to stringy disseminated magnetite in a siliceous ± CO ₂ matrix									
				- Bands of aphanitic silica very fine < 1 cm to 1 foot									
				- Interval is said to locally stringy oxidized									
				- Scattered fig. spots occurs in magnetite bands - in the embedded									
				- Gings etc vary 2-3 cm thick run parallel to the foliation these are variably marked along the fractures									
				- Locally in the Fe Fm textures go from									
				- Lower contact is Breccia / brecciated or filled.									
16.2-20.4				Banded < 1 cm aphanitic silica & thin magnetite mm scale crystallite bands - fig. spots in silica bands & lenses in folia									
				- oxidized etc vary locally									
				- same pattern of interval is Brecciated Banded lower fault zone.									
20.4-22.9				Result magnetite gang & sp. black siliceous chp fragments & 1.5 m of last core									

CODE
 UNM
 EXPT
 RHAL
 STFL

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DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal.	Cpy
					Ser	Chl	CO3	Sil	Po/MT		
42	STFL			Fault							
47.2				Argillite Fault gouge + gtz Crystals							
48				47.2-48.5 Pres. Black Argillite							
49	ARMS			stripes at mm scale white							
49				Edibleaceous silst. - some lenses							
50	STFL			Bands of sphaeric silica chert. silst.							
51				48.5-50.9 Fault Zone							
52	STFL			- Predominantly argillite gouge							
53				w/ red - ahd. disc pyrite							
54				- Locally Cracked gtz vns							
55	ARMS			w/ cherts + silica along the							
56				fractures.							
57	ARMS			- near competent zones of siliceous							
58				argillite							
59	ARMS			53.9-54.9 Lost core							
60				DHLC							
61	ARMS			54.9-55.2 Qtz vns - opalescent + fractured							
62				55.2-63.6							
63	ARMS			Black to dark grey							
64				argillite - locally graphitic							
65				< 1cm sphaeric grey							
66	ARMS			Silica Bands are scattered							
67				on the internal							
68	ARMS			- pyrite is common along							
69				fractures & the foliation							
70	ARMS			- lower portion of interval							
71				becomes increasingly siliceous							
72	ARMS			& rare sphaeric nodules							
73				into lower interval							
74	ARMS			- pyrite less common							
75				silica							
76	RHAT			63.6-72.5							
77				RHAT							
78	RHAT			Sphaeric to lg. chert-tuff-							
79				Rhy - starts at thin mm to 0.5cm							
80	RHAT			Scale sericite & argillite							
81				Bands							
82	RHAT			- pyrite moderately common							
83				along rare foliated							
84	RHAT			Bands - fine disc w/ the							
85				Silica bands.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
EXMT		93.6	94.1	0.5	125288				
RHTT		94.1	94.9	0.8	125289				
EXMT		94.9	97.2	2.3	125290				
EXMT		97.2	99.6	2.4	125291				
RHAT		99.6	101.2	1.6	125292				
RNAL		101.2	104.2	3.0	125293				
RNAL		104.2	106	1.8	125294				
RHAR		106	108.2	2.2	125295				
RHAR		108.2	110.5	2.3	125296				
108.5 EXCP		110.5	111.2	0.7	125297				
EXCP		111.2	113.6	2.4	125298				
EXCP		113.6	116.9	3.3	125299				
					125300				
					125301				
					125302				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION								
					Ser	Chl	CO ₃	Si	P/mt	Pyrite	Sphal	CPY	
180.8-188.5													
186	ARSC			ARSC	Prob. Sericite schist in Sericite alt. lapilli - Gray CO ₃ alteration at top of interval weakly at depth - locally argillite - 1/4 ft Bands.								
187													
188													
189	DPTI			188.5-195.5 QFP1	Qtz Calcspen Auger Sericite Schist								
190													
191					Qtz - Spen auger (mass) var. Calcspen locally banded in brownish green sericite bands to dk py silty-arg Bands ± sericite - the Si/CO ₃ auger is sometimes dark to blk - (Chl inclusion (alt). Auger themselves appear to have Fsp + Phos - ex-cubical - Pyrite + Pyrrhotite ± sph occur in small bands along the Core - internal is now to strongly magnetite								
192													
193													
194													
195													
196													
197													
198						- at 193.1 matrix becomes gray dk py to light sericite auger are smaller & coarse - fine small lapilli average - at 195.3 - increasingly black Siliceous matrix & Black siliceous auger (Chl alt?) banding to core gt - fsp auger & brownish green sericite at 199 - to half Pyrite + Qtz + Sericite Auger Schist - lower alt. is banded							
199													
200													
201													
202													
203				202.5-203.4	Fault - STFL								
203.5					Argillitic Fault Gouge Rt Brexia & CO ₃ matrix								
204	SSMS			203.4-204.45	Pyrrhotite Sphal rich massive Sulfide SSMS								
204					203.4-204.15: fine-grained Pyrite rich MS - sandy textured - small sph on matrix at top - rehears								
204.5					massive rounded	204.15-205.1: Pyrite + Sph massive Sulfide - sph in matrix giving banded text in Apple & sph Pyrite 4 cm - Strong CO ₃ matrix							
205						205.1 - 205.45: Pyrrhotite rich chl chrt - sph + pyrite 205.45-205.6							
205.5						(Qtz var content) sph + pyrite + chl var							

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	CMY
					Ser	chl	CO ₃	Sil	Fe/Al		
205.5	STFL			205.45-205.6 Q+2 m							
206	RHST			205.6-205.8 Fault - Serrate Gorge + qtz + STFL C03 m							
207	STFL			205.8-206.3 Serrate + Chlorite schist (RHST)							
208	RHST			206.3-206.9 Serrate schist Fault Breccia							
209	RHST			206.9-209.7 Serrate + chlorite schist - Scattered thin (1 cm stem) Trace disse pyrite							
210	STFL			209.7-209.8 Serrate schist Fault Gorge STFL							
211	RHST			209.8-211.8 Serrate schist - strong foliated pale green to grey green ± chl ± fgs. drusy							
212	STFL			211.8-215.8 Serrate schist gorge zone - thyrst shry gorge the gorge is intersected in core - Scatter in sphalerite veins & silic. ngs - Assyn fold showing Bo then up rounded at 215.7.							
213	STFL										
214	STFL										
215	STFL										
216	RHST			215.8-217.8 Serrate schist RHST							
217	RHST										
218	STFL			217.8-218.3 Serrate schist Gorge STFL							
218.3	Bo ho										

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DRILL LOG

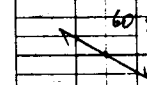
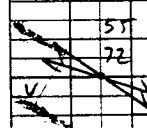
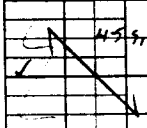
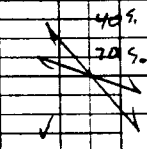
PROJECT <i>Wolverine Stratigraphic Drill Program</i>	GROUND ELEV. <i>~1690m</i>
HOLE NO. <i>WV-96-55</i>	BEARING <i>Sid. South</i>
LOCATION <i>FISHER HILL</i> <i>L 10 000 E / 18 600 N</i>	DIP <i>-80°</i>
LOGGED BY <i>Andrew Turner</i>	TOTAL LENGTH <i>1794' - 546.8 m</i>
DATE <i>Sept 1/96 - Sept 10/96</i>	HORIZONTAL PROJECT
CONTRACTOR <i>F. BOISVENU DIAMOND DRILLING</i>	VERTICAL PROJECT
CORE SIZE <i>NQ II</i>	ALTERATION SCALE
DATE STARTED <i>August 27/96</i>	TOTAL SULPHIDE SCALE
DATE COMPLETED <i>September 8/96.</i>	LEGEND
DIP TESTS <u>ACID TEST</u> : ① 1079' - 332.8m - <i>-65°</i> ② 100' - 30.5m - <i>-80°</i> ③ 1760' - 536.5m - <i>-56°</i>	
COMMENTS <i>- stratigraphic hole ~900m step out from W95-07 @ interesting geo chem at depth.</i>	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0				DMCS - casing - overburden							
0 to 3.1				Felsenmer							
3.1 to 49.5				RMAT - "type rocks" - excellent RMAT (RMAT) - GRAY TO DARK GRAY, ARGILLACEOUS, MATRIX-RICH, FRAGMENTAL, APHETIC RHYOLITE (LAPILLI TUFF).							
5				- vague banding (some flattening), however fragments are too small to give banded texture, instead rock has excellent fragmental texture							
5-10				- is 70-80%, .5-2cm, elongated, grey and dark grey, v. fm. grad, aphanitic rhyolite fragments in a very fm. grad, v. dk grey to blk, argillite matrix							
10-15				- Rhy frags are mottled & contain abundant, thin (1-4mm), silica and carbonate veinlets							
15-20				- carbonate appears to be restricted internally of the frags, silica is x-matrix.							
20-25				- fr-1% dz (to blebby) py							
25-30				- minor FeO in thinning 0-9m + 45-49 m.							
30-35				- contains occasional, thin (1-10m), foliated, dark green tuffaceous bands; 14.5, 15.4, 23.6, 24.9, 25.6, 26.0-26.25m, 36.6-36.8m, 40.3, 40.5							
35-40				- STGG - 26.0-26.25m							
40-45				- inter bands of RMAT in last 8m. (44.25-49.0m)							

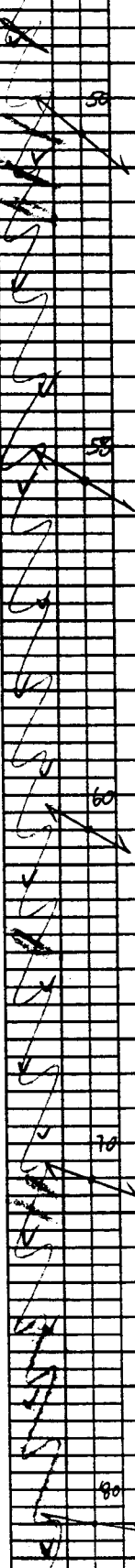
DMCS

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
24											
25											
26											
27											
28											
29											
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31											
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↑
Aug.

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
47				49.5m to 61.9m RHTT - GREY TO BROWNISH GREY THINLY BANDED APHICRIC RHYOLITE LAPILLI-ASH TUFF - (but not RHAL)							
48				- overall grey and/or brownish grey color, thin bands ($\leq 1cm$) of fn. grd. qtz: ser. (not segregated as in RHAL) ^(ASH) supporting up to 40-50%, small, l. am, v. fn. grd, lighter grey siliceous rhyolite fragments (lapilli)							
49				- tr. ds py.							
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60				61.9m to 64.9m RHAT - LIGHT GREY + GREENISH- GREY, BANDED, SERICITIC, APHICRIC RHYOLITE							
61				- fairly typical, 1-3cm thick bands of light grey, v. fn. grd, aphanic rhy, separated by 1-4mm, foliated (cleared) greenish-grey, v. fn. grd, sericite matrix.							
62				- tr. ds py.							
63											
64				64.9m to 71.3m RHAL - GREY TO DARK GREY, ARGILLACEOUS, BANDED TO FRAGMENTAL APHICRIC RHY.							
65				- matrix - rich (30-40%), v. fn. grd, black argillite containing 60-70%, v. fn. grd, dark grey, aphanitic, argillaceous rhy fragments (1.5-3cm).							
66				- well developed cleavage							
67				- tr. ds py.							
68											
69											

FeOx

sericite?
(not greenish)

Ser

arg

qu

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		46.5	48		171777				
		49.5	51.0		171778				
		52.5	54.0		171779				
		55.5	57		171780				
		58.5	60.0		171781				
		60.5	61.9		171782				
		61.9	63.6		171783				
		63.6	64.9		171784				
		64.9	66.5		171785				
		68	69.5		171786				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
69	QU			- abundant QU'S: 68.6 - 69.2m,							
70	QU			69.8 - 69.9m, 70.25 - 70.45m, 70.75m							
71	QU			71.3m to 80.4m RMTT - DARK GREY AND PMU GREENISH GREY, INTERBEDDED, ARGILLACEOUS AND STRICINE, APHETIC RHYOLITE LAPILLI-ASM TUFFS							
72											
73											
74				- very similar to above RMTT (49.5-61.9m), however, contains several distinct beds in argillaceous matrix w/ smaller frags (5cm), vs .5-3cm in sericitic beds.							
75				- tr. ds py							
76				- argillaceous tuffaceous tuffs: 72.5 - 72.75m, 74.45 - 74.7m, 76.35 - 76.55m, 76.75 - 76.9m, 79.25m - 80.4m.							
77											
78											
79											
80				80.4m to 83.1m ARTF - BLACK TUFFACEOUS ARGILLITE - gradational contact from overlying white to arg. mtry dominated with 20% .5-1cm, rhythmic fragments							
81	ARTF			- tr. ds py							
82				- QU'S @ 81.55 - 81.7m, 82.0 - 82.05m, 82.3 - 82.6m, 1 x-culting thym + py @ 83.0m (30 to CA).							
83	ARGT										
84											
85				83.1m to 83.8m ARGRT - BLACK ARGILLITE (to TUFF-ALOUS ARGILLITE) w GREEN TUFFACEOUS BANDS.							
86				- very thinly banded (1cm), v. frag. black and green argillite + green (magn?) tuffs.							
87	ARTF			- tr. ds py.							
88											
89				83.8m to 91.75m ARTF - BLACK TUFFACEOUS ARGILLITE - as above, 30-40%, .5-1cm, flattened (lensoid) light grey, frag. rhy. fragments in an argillite matrix							
90											
91	QU			(127)							
92	RMTT			- Limer horizon @ 88.5 - 88.7m - minor Green Tuffs @ 87.4m, 89.3m, 89.7m							

PAGE OF		PROJECT:					HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						
		69.5	71.3		171787					
		71.3	73		171788					
		74.5	76		171789					
		77.6	79.2		171790					
		79.2	80.4		171791					
		82.0	83.1		171792					
		83.1	83.8		171793					
		83.8	85.4		171794					
		86.65	88.4		171795					
		88.4	90.0		171796					
		90.0	91.25		171797					
		91.25	93.0		171798					

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
91.75m to 121.65m				PHAL. (RMP) GREY TO DARK GREY, ARGILLACEOUS, MATRIX-POOR, FRAGMENTAL TO BANDED, APHERIC RHYOLITE							
93	✓										
94											
95	✓			- ~10% thin (1-2cm), v. fine gr., dk. grey - blk. argillaceous parting separating, 1-4 cm, flattened (elongated), light grey v. fine gr., aphan., rhy fragments.							
96	✓			- cleavage in rock manifested as slightly kink contacts on rhy frags							
97	✓			- small % disj. py							
98	✓			- very minor sericite alter.							
99	✓			- GTS e							
100	✓										
101	✓										
102	✓										
103	✓										
104	✓										
105	✓										
106	✓										
107	✓										
108	✓										
109	✓										
110	✓										
111	✓										
112	✓										
113	✓										
114	✓										
115	✓										

94 RMM

95 arg.

arg.

*58
70*

66

*55, 51
70, 70*

70

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Table with columns: MINERALIZATION DESCRIPTION, TOTAL SULPHIDES, SAMPLES (FROM, TO, WIDTH), SAMPLE NUMBER, ASSAYS.

117 118.5 171805

120 121.65 171806

121.65 123 171807

126 127.5 171808

130.5 132.0 171809

135.0 136.5 171810

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
138				RHAT cont'd.							
139											
140			60°								
141											
142											
143											
144											
145			70°								
146											
147											
148											
149											
150			65°								
151											
152											
153											
154											
155			70°								
156											
157											
158											
159											
160			60°								
161											

RHAT cont'd.

60°

70°

65°

70°

60°

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
162											
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171											
172											
173											
174											
175				175.0m to 195.2m RHAL/RHAF - RMPR GREY IRREGULAR ~ GREENISH GREY SUBCIRCULAR, FRAG- MENTAL SPHERIC RHY.							
176											
177											
178				- as above however, predominance of grey (unaltered) argillaceous matrix over greenish grey (altered) sericite matrix.							
179				- good fragmental textures - 1-2% coarse ds py throughout							
180											
181											
182											
183											
184											

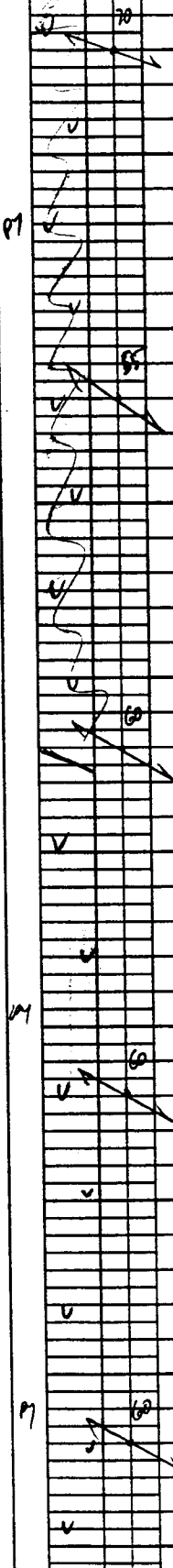
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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
184											
185											
186											
187											
188											
189											
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195.2m to 211.3m
 RHAF - RHFR - GREENISH GREY,
 SERICITIC, APHERIC, FRAG-
 MENTAL RHYOLITE
 - as above.

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MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		231.5	232.9		171838				
		236	237.5		171839				
		237.5	239.0		171840				
		239.0	240.5		171841				
		242	243.5		171842				
		245	246.5		171843				
		248	249.5		171844				
		251	252.5		171845				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
253				256.75m to 257.75m RMCT - DARK GREEN, FINE-GRD							
254				256.75m VERY THINLY BANDING, CHLORITE RHYOLITE TUFF							
255				- thin, 1-5cm, undulating bands, v. fm. grd, silica, + chl, + carbonate spots.							
256				- very hard + siliceous overall.							
257				- to obs py, minor carbonate.							
258				256.75m to 257.3m RHAT - GREENISH GREY, STRIPED, BANDING, AMPHIBOL RHYOLITE							
259				- matrix poor, well banded (2-4cm), v. fm. grd, siliceous, aphan. rhy.							
260				- minor carbonate bands + 1-2% py @ top.							
261				257.3m to 261.85m EXMT - MAGNETITE-POOR, MT-CARB - SILICA FB. FM.							
262				- overall light grey color, composed of alternating, thin (1-2cm), light grey, v. fm. grd, silica-rich and pale yellowish grey (cream) colored, v. fm. grd, carbonates (Fe carb) - rich bands							
263				- unit contains 1-2%, coarse (1-3mm) py xls and 3-5%, coarse disseminated to banded Mt (overall spotted appearance due to dis Mt.)							
264				261.85m to 262.15m EXCM - CREAM COLORED, CARBONATE EXHALITE WITH COARSE DISSEMINATED MAGNETITE							
265				- massive, 30cm band of v. fm. grd, cream colored (Fe) carbonates (weak effervescent) w 5-10%, coarse, embedded magnetite throughout.							
266				262.15m to 268.3m EXMT - MAGNETITE-RICH, CARB-SILICA-MT-Fe FM.							
267				- similar to above (257.3-261.85m) however MT. rich - 40-50%.							

PAGE	OF	PROJECT:					HOLE NO.		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
			254	256.15		171846			
			256.15	256.75		171847			
			256.75	257.3		171848			
			257.3	258.8		171849			
			258.8	260.3		171850			
			260.3	261.85		171851			
			261.85	262.15		171852			
			262.15	263.4		171853			
			263.4	263.9		171854			
			263.9	265.4		171855			
			265.4	266.7		171856			
			266.7	268.3		171857			
			268.3	269.8		171858			
			269.8	271.3		171859			
			271.3	272.7		171860			
			272.7	274.2		171861			
			274.2	275.6		171862			
			275.6	276.9		171863			

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
276				- 263.4 - 263.9 m - EXCP - MT-PUR - 4% Bc-micas, 1-2% py. purplish							
277				- overall dark An - black color, due to semi-massive to massive nature of MT, w vague band (<1cm) to patches (1.5 x 1cm) of cream colored Fe-Co3.							
278	(spl)			- unit also contains 2-3% crs. ds. py.							
279				- STBX zone (265.6m - 266.7m) (L? to SA) w SILICA / CARB / BARITE							
280				healing fractures and py rimming Fe-Fn fragments.							
281	(spl)			- patches of coarse ds x 1's of (?) now chlorite altered.							
282											
283				268.3m to 271.3m EX MT - MAGNETITE - PURP, CARB - SILICA - MT Fe Fn							
284				- as above 257.3 - 261.85m however, less of the coarse ds MT (ie. not 'spotted') and more of the Fn-grd. MT bands.							
285				- 1-3% ds py							
286											
287				271.3m to 272.7m EXCP (?) - SILICA / CARBONATE							
288				EX MAGNETITE (PY-PURP)							
289				- Thinly banded (<1cm), v. Fn-grd, light grey glassy silica with 10-20% .5-1cm bands and blebbs of cream colored carbonate throughout							
290	+ carb			- tr-1% MT/py							
291				- 1-2% spl string @ 271.65-271.75m							
292											
293				272.7m to 276.9m ARS1 - THINLY BANDED, DARK GRAY - BLACK, SLICIOUS ARGILLITE							
294				- thin 1-3cm, dk. gr. blk., contorted sil. arg. bands +/- minor carbonate							
295				- carbonate band - 275.2 - 275.5m							
296				- 1-3% thin, Fn-grd. py string							
297				276.9m to 281.4m RMST - VERY THINLY BANDED TO MASSIVE, APPLE-GREEN SERRILE							
298				(?) ALTERED RHYOLITIC TUFF							
299				- very thin (<1cm), vague bands of sericite rich vs silica-rich rhy dls material							
300				spl band @ 278.45m or 280.8m							
301				- Fairly intense ser. alt'n.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		276.9	278.5		171864				
		278.5	280.25		171865				
		280.25	281.9		171866				
		281.9	283.0		171867				
		283	284.2		171868				
		284.2	284.8		171869				
		284.8	285.0		171870				
		285.0	286.0		171871				
		286	287.5		171872				
		287.5	288.8		171873				
		288.8	290.4		171874				
		290.4	292.0		171875				
		292.0	293.6		171876				
		293.6	295.0		171877				
		295	296.5		171878				
		296	298.0		171879				
		298.0	299.5		171880				

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		299.5	300.4		171881						
		300.4	302.0		171882						
		302	303.5		171883						
		304.5	305		171884						
		305	305.45		171885						
		305.45	306.55		171886						
		306.55	307.55		171887						
		307.55	308.1		171888						
		308.1	309.6		171889						
		309.6	311.4		171890						
		311.4	312.15		171891						
		312.15	313.75		171892						
		313.75	314.2		171893						
		314.2	315.5		171894						
		315.5	316.5		171895						
		316.5	317.6		171896						
		317.6	318.0		171897						
		318.0	319.6		171898						
		319.6	320.4		171899						
		320.4	322		171900						
		322.0	323.5		171901						

PAGE OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		323.5	325.0		171902				
		325	326.5		171903				
		326.5	328		171904				
		328	329.5		171905				
		329.5	330.5		171906				
		330.5	331.2		171907				
		331.2	332.7		171908				
		332.7	333.65		171909				
		333.65	335.3		171910				
		335.3	336.8		171911				
		336.8	338.35		171912				
		338.35	339.2		171913				
		339.2	340.1		171914				
		340.1	342.5		171915				
		342.5	344.0		171916				
		344	344.45		171917				
		344.45	346.8		171918				

PAGE		OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH							
		346.8	348.45		171919						
		348.45	350.5		171920						
		350.5	352.8		171921						
		352.6	353.45		171922						
		353.45	354.75		171923						
		354.75	356.1		171924						
		356.1	357.6		171925						
		357.6	359.3		171926						
		359.3	361.35		171927						
		361.35	363.15		171928						
		363.15	363.5		171929						
		363.5	365.0		171930						
		365.0	366.5		171931						
		366.5	368.5		171932						
		368.5	370		171933						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
340.1 m to 342.0 m				EXMT - MAGNETITE - POOR, MT - CARB - SILICA Fe-Fm. - dark green color, spotted appearance with 2-3% crs. dis'dol Mt throughout. - unit vaguely banded with calcareous layers (~25%) mixed with very siliceous layers. - chlorite (v. fm. - rd) throughout + 1-2% crs. dis. py. - Carb py vein (10' to CA) - 340.8-342.0m							
342.0 m to 344.0 m				EXCP - MASSIVE, LIGHT GREY, SUBBASIC CARBONATE EXHALITE (PY - POOR) - v. light grey, massive to vaguely banded, sugary carbonate with minor (tr-1% ds py, MT)							
344.0 m to 344.45 m				EXMT - MAGNETITE - POOR, CHLORITE, MT - CARB - SILICA Fe-Fm. - as above (340.1 m to 342.0 m) - Fairly massive, calcareous, chl-rich w/ tr-1% crs. ds py + 1-3% Fmly ds Mt							
344.45 m to 346.8 m				RHFS - LIGHT GREY, MASSIVE APHERIC FELSIC - v. fm. grd, vaguely banded to massive, light grey, aphenic Phyolite - minor dark green sericite parting, tr ds py/spk							
346.8 m to 349.15 m				EXMT - MAGNETITE - POOR, CHLORITE, MT - CARB - SIL Fe-Fm. - as above (344.0 - 344.45 m)							
347.15 m to 348.45 m				EXCP - MASSIVE, LIGHT GREY, SUBBASIC CARBONATE EXHALITE (PY - POOR) - as above (342.0 m to 344.0 m) - tr-1% ds py, slightly better thin (<1m) banding.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368	QU →			365.8m to 373.5m RHA/R - GREY TO DARK GREY, THINLY BANDED ARGILLACEOUS, APHIBOLIC RHYOLITE							
369			75	- thinly banded to laminated (1mm-1cm), dark grey, argillaceous, v. fin. gr.; aphanitic rhy w thin lam. argillaceous partings.							
370	QU →			- QU: 367.25-368.45m, 370.45-370.5m							
371				- 1-2% finely xln py stringers +/- dr's. (Asph?)							
372											
373											
374	QU →			373.5m to 374.2m RMFS - LIGHT GREY, MASSIVE APHIBOLIC RHYOLITE							
375			60	- Fin. gr., weakly banded, aphanitic rhy w abundant dr's +/- ser filled fracs both to So + X-cutting (± So)							
376											
377	hemat sph?			374.2m to 374.75m EXMT - MT-RICH, MT-SILICA CARBONATE Fe Fin.							
378				- mixed w QU's. central zone from 374.3-374.4, 374.6-374.75 = massive, fin. gr., banded, black (w red hem.) MT w 3-5% finely xln py in X-cutting fractures							
379			80								
380											
381											
382				374.75m to 378.5m RMFS - LIGHT GREY, MASSIVE TO VAGUELY BANDED, APHIBOLIC RMY							
383				- as above, but regularly banded below - trace of dr py + sph (?) - just reddish stain? hem?							
384											
385			75	378.5m to 380.0m SILICA-PY ROCK - RMFS + PY BANDS							
386	sph			- RMFS as above with thin 1-2cm py bands up to 20% throughout - no vis. sph, no carbonate							
387	pt.			380.0m EXCP - DARK GREY, SUCROSSIC CARBONATE w 10-15% finely xln py.							
388	sph			CARBONATE - PY LITHALITES - as above 381.2-380.5m							
389			70	- grey to dark grey, succrose, carb w thin 1-2cm banded finely xln py. (10-15% total) + tr sph.							
390				RMAT (sph + tr pt)							
391				- minor ARSI + py (385.35-386.15m) - semi massive py (386.35-386.85m)							

PAGE OF		PROJECT:				HOLE NO.			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		370	371.7		171934				
		371.7	373.5		171935				
		373.5	374.2		171936				
		374.2	374.75		171937				
		374.75	376.75		171938				
		376.75	378.5		171939				
		378.5	380.0		171940				
		380	381.9		171941				
		381.9	383.0		171942				
		383.0	385.35		171943				
		385.35	386.35		171944				
		386.35	386.85		171945				
		386.85	387.55		171946				
		387.55	389.5		171947				
		389.5	391.0		171948				
		391.0	393.2		171949				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
389.5m to 393.2m				RMFS + PY (?) - SILICA - PY ROCK. - dark grey, fairly massive to vaguely banded (sulfide defining banding), fm. grd., aphanitic (py to up to 10%). Fully xln py throughout - minor carbonate bands (391.75m, 392.25m) otherwise without CARB.								
393.2m to 394.85m				EXCP ? - MESSLED-UP - RE-XL'ISED ZONE MIXTURE OR SILICA - CARBONATE - PY - mottled texture, re-crystallized zone, SILICA - CARB - PY ROCK. - 570% total sulfide. (Fully xln py) - upper contact sharp ~ < 30° to (A), lower contact sharp to CALCITE VEIN (25° to (A)) - +Po at top. (1-2%)								
394.85m to 395.55m				CAVN - MASSIVE WHITE SUGARY CALCITE VEIN.								
395.55m to 397.75m				EXCP - PY-POOR - MASSIVE GREY CARBONATE EXHALITE - grey, swamy, massive to vaguely banded, py-poor (2.2%) (as blobs vs. bands), Calcite - Py Exhalite - in places - Brecciated with white calcite frac. filling. (396.3-396.7m, 397.5-397.75m)								
397.75m to 402.9m				RMFS - MASSIVE, LIGHT GRAY, AMPHIBOLIC RHYOLITE - light grey, v.fm. grd, vaguely banded (rare sericitic partings), v.fm. grd., aphanitic rhyolite - tr-1% dis + banded fully xln py. (401.0m). - minor carbonate (400.0m, 402.7m).								
402.9m to 404.4m				RMCL - DARK GREEN, CHLORITIC, THINLY BANNDED, AMPHIBOLIC RHYOLITE - sudden color change to abundant chloritic partings, tr-1% dis py.								

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RMFS
PY
CAVN
EXCP
RMCL
STGG
ARCAS
ARS1

395 CARBON →
405 CML/CARB
407 ARCAS
ARS1

80
80
80

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
414				404.4m to 406.1m	EXCP - ? - DARK GREEN AND LIGHT GRAYISH GREY, CHLORITIC, SILICEOUS, CARBONATE ROCK							
415					- ? some sort of chlorite altered FeFm w/ carbonate & silica.							
416	OV				- 1-1% ch3 py. 1- blobs.							
417	OV											
418	OV			406.1m to 408.9m	ST GG - BRECCIATED TO GOUGEON, DARK GREY TO BLACK							
419					- ARGILLITE AND SIL'S ARGILLITE							
420					- v. fm. grad, v. thinly banded, dark gray brecciated - gouge siliceous Arg. with - Fault Zone							
421				408.9m to 431.4m	RMAR - DARK GREY, THINLY BANNED, ARGILLACEOUS, APHYRIC, RMY INTERBANNED W/ CALCAREOUS LAMINAE.							
422					- thin, often contorted, bands of v. fm. grad., aphyric, dark gray, argillaceous rhyolite w/ thin (laminated) argillite partings							
423					- occasional sulfide bands primarily py (1-2% shiny sph below 430m)							
424					- numerous, 5-25cm, dark gray, spherulitic, massive carbonate horizons; 408.5-6m, 410.0m, 412.15-412.35m, 414.8-415.1m, 416.9-46.6m, 417.7-418.0m, 418.38-35m, 426.8-429m.							
425					- abundant QU'S; 413.2-413.35m, 416.1-416.3, 416.9-417.2m, 417.3-45m, 418.1-2m, 419-419.45m, 430.7-430.8m.							
426												
427												
428												
429												
430												
431	SPH			431.4m to 434.1m	SILICA - PY (M-CARB)							
432	SPH				- transition between EXCP below. - 3-5% finely x/16 py + sph bands.							
433				434.1m to 434.7m	EXCP - LIGHT GREY, PY-CARB							
434	SPH				1- SILICA 1- SPH EXHALITE							
435	SPH				- Fairly typical EXCP, however, abundant (3-5% sph throughout)							
436	SSMS			434.7m to 435.1m	SSMS - SEMI-MASSIVE PY MINERALIN							
437	RMSR				- transition from EXCP to RMER @ 25-30% py in silica. minor sph.							
438												
439												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		438.0	439.5		171978				
		439.5	441		171979				
		441.0	442.0		171980				
		442.0	443.0		171981				
		443.0	444.0		171982				
		444.0	446.0		171983				
		446.0	447.25		171984				
		447.25	448.45		171985				
		448.45	449.7		171986				
		449.7	451.5		171987				
		451.5	453.0		171988				
		453.0	454.5		171989				
		454.5	456		171990				
		456.0	457.0		171991				
		457.0	458.0		171992				
		458.0	459.0		171993				
		459.0	460.0		171994				
		460	461		171995				



MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		461.0	462		171996				
		462.0	463.5		171997				
		463.5	464.2		171998				
		464.2	465.1		171999				
		465.1	467.4		172000				
		467.4	469.15		172001				
		469.15	471.0		172002				
		471.0	472.3		172003				
		472.3	473.0		172004				
		473.0	475.2		172005				
		475.2	476.95		172006				
		476.95	477.7		172007				
		477.7	479.25		172008				
		479.25	481.75		172009				
		481.75	483.6		172010				
		483.6	484.6		172011				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		507.2	508.9		172024				
		508.9	510.9		172025				
		510.9	512.0		172026				
		512.0	513.1		172027				
		513.1	515.0		172028				
		515.0	516.0		172029				
		516.0	517.0		172030				
		517.0	519.0		172031				
		519.0	521.0		172032				
		521.0	523.0		172033				
		523.0	525.0		172034				
		525.0	527.0		172035				
		527.0	529.0		172036				
		529.0	530.5		172037				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		530.5	532.8		172038				
		532.8	535.0		172039				
		535.0	536.5		172040				
		536.5	538.3		172041				
		538.3	539.7		172042				
		539.7	542.55		172043				
		542.55	545.0		172044				
		545.0	546.8		172045				

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DRILL LOG

PROJECT Wolverine Deposit	GROUND ELEV. 1492.0
HOLE NO. WU 96-56	BEARING 180 GN
LOCATION N 17095.0 E 16400.0	DIP -90
	TOTAL LENGTH 370.9
LOGGED BY J. Breedlove	HORIZONTAL PROJECT
DATE 9/8/96	VERTICAL PROJECT
CONTRACTOR CAREW	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE HQ → 12.6m, NQ → 370.9	
DATE STARTED 8/31 →	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED 9/7	
DIP TESTS	
COMMENTS Intercept 326.4 → 329.94	LEGEND

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					ser	chl	CO ₃	Si	PO ₄ /mt	Sph	CP	
20	A 70			66.7-70.4 TP4 Calcareous green tuff. fig. laminated Breccia zone thin band appearance to the left fig. disc pyrite								
71												
72	A 75			70.4-92.2 AAT Siliceous + carbonate, rounded fragmented, tightly packed in a predominantly argillaceous to silty matrix.								
73												
74	A 75			- locally mm scale sericite bands define the foliation								
75												
76	A 75			- locally mm scale sericite bands define the foliation								
77												
78	A 75			- locally mm scale sericite bands define the foliation								
79												
80	A 75			- locally mm scale sericite bands define the foliation								
81												
82	A 75			- locally mm scale sericite bands define the foliation								
83												
84	A 75			- locally mm scale sericite bands define the foliation								
85												
86	A 75			- locally mm scale sericite bands define the foliation								
87												
88	A 75			- locally mm scale sericite bands define the foliation								
89												
90	A 75			- locally mm scale sericite bands define the foliation								
91												
92	A 75			- locally mm scale sericite bands define the foliation								
93												
94	A 75			- locally mm scale sericite bands define the foliation								
95												
96	A 75			- locally mm scale sericite bands define the foliation								
97												
98	A 75			- locally mm scale sericite bands define the foliation								
99												
100	A 75			- locally mm scale sericite bands define the foliation								
101												
102	A 75			- locally mm scale sericite bands define the foliation								
103												

A
R
R
T

A
R
R
T

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	Ch	CO3	Si	Fe/Al	Pyrite	Sphal	Chl
				192.9-185.6 Fault								
186	STFL			STFL Banded chlorite alt Rhyolite interbedded fragmental Banded w/ Chl=Arg+Ser								
187	S			186.4-188.1 Fault-								
188	STFL			STFL Chlorite gouge + aphyre siliceous Rhyolite-chert + quartz bubbles								
189	RNAT			188.1-189.8 RNAT Banded chlorite alt Rhyolite interbedded fragmental Banded w/ Chl=Arg + Ser - fine disc pyrite								
190				189.8-192.9 Fault								
191	STFL			STFL - Chlorite - Serous gouge + aphyre siliceous bubbles to 192.7 - last 10cm in Argillite gouge								
193	RNAT			192.9-193.3 RNAT Pred Black Argillite + fine siliceous Bands								
194				193.3-198.3 Fault								
195	STFL			STFL Argillite Fault Gouge in zone of last core								
196												
197												
198												
199	STFL			198.3-199.3 STFL Fault Breccia - Fragmental angular Breccia - Siliceous in chlorite + locally argillite-pyrite common								
200	RNAT			199.3-200 RNAT Cherty-Rhyolite-massive foyite greenish grey - locally in Bands of Chl=Arg disc covered by red common-magnetite								
201	RNAT			200-207.6 RNAT Massive to banded aphyre Rhyolite Chert-stite w/ chlorite + ser Banding - by common as Fox's d along foliation - locally scattered dark Red schaly hem? or both spotting in Chl=Arg Massive aphyre siliceous-Rhyolite on gabbro w/ Chl + ser Parting + Bands locally - by common dark along Colony - locally magnetic								
202	STFL			201.6-202.3 STFL Massive aphyre siliceous-Rhyolite on gabbro w/ Chl + ser Parting + Bands locally - by common dark along Colony - locally magnetic								
203	RNAT			202.3-202.7 RNAT Banded Chl + aphyre siliceous + disc mt + pyrite								
208	RNAT			202.7-208 RNAT Banded Chl + aphyre siliceous + disc mt + pyrite								



DEPTH (m)	CODE	NUMS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
						Ser	Chl	CO ₃	Si	Py	Pyro	Sph	CP
					202.5-208.0 - QR UN & chl matrix								
209	R				208.2-208.9 Banded aphyre of green chlorite RHAT = sericite + chlorite - Broken core								
210	R				208.9-211.3 Banded Aphyre of silica & RHAT Black argillite grading into sand at the sericitically Banded intervals - Bch chlorite at Pox's								
211	R				211.3-215.6 RHAT Banded aphyre of to green of silica with chlorite & sericite - core is Broken & Rubby - more gangue 'really pyritic								
212	R												
213	R												
214	R												
215	R												
216	S				215.8-218.2 STFL Fault - Sericite gangue - sericitic 0.4m - 3 meters at core lost								
217	S												
218	S				218.2-218.3 chlorite FT + Brown - similar to Pyrite								
219	S				218.3-221.6 STFL Fault 10cm width of siliceous aphyre of green rubby - part of the interval is argillitic gangue & broken core								
220	S												
221	S												
222	A				218.3-223.1 RHMS Black argillite - a druse-like chlon Calc + Pox's - mod py & along these - more siliceous bands								
223	A												
224	D				223.1-223.2 RHLC LOST CORE								
225	D												
226	D												
227	D												
228	S				227.7-232.0 STFL Fault Rubby siliceous core at 30cm of interval & the rest is dominated by broken chl alt. on these gangue & Broken core.								
229	S												
230	S												
231	S												

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>ARMS</i>		<i>323</i>	<i>325.2</i>	<i>2.2</i>	<i>106128</i>				
<i>ARMS-STFL</i>		<i>325.2</i>	<i>326.4</i>	<i>1.2</i>	<i>106129</i>				
<i>FSMS</i>		<i>326.4</i>	<i>327.1</i>	<i>0.7</i>	<i>106130</i>				
<i>SSMS</i>		<i>327.1</i>	<i>327.36</i>	<i>0.26</i>	<i>106131</i>				
<i>FSMS</i>		<i>327.36</i>	<i>327.88</i>	<i>0.52</i>	<i>106132</i>				
<i>SSMS</i>		<i>327.88</i>	<i>329.2</i>	<i>1.32</i>	<i>106133</i>				
<i>SSMS</i>		<i>329.2</i>	<i>331</i>	<i>1.8</i>	<i>106134</i>				
<i>SSMS</i>		<i>331</i>	<i>332.94</i>	<i>1.94</i>	<i>106135</i>				
<i>RHST</i>		<i>332.94</i>	<i>333.3</i>	<i>0.36</i>	<i>106136</i>				
<i>RHST</i>		<i>333.3</i>	<i>334.2</i>	<i>0.9</i>	<i>106137</i>				
<i>ARSL</i>		<i>334.2</i>	<i>335.3</i>	<i>1.1</i>	<i>106138</i>				
<i>ARSL</i>		<i>335.3</i>	<i>337.7</i>	<i>2.4</i>	<i>106139</i>				
<i>ARSL</i>		<i>337.7</i>	<i>338.5</i>	<i>0.8</i>	<i>106140</i>				
<i>ARSL</i>		<i>338.5</i>	<i>339.7</i>	<i>1.2</i>	<i>106141</i>				
<i>ARMS</i>		<i>339.7</i>	<i>342.9</i>	<i>3.2</i>	<i>106142</i>				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
RMST		357.7	358.4	0.7	105801				
QU + ALMS		358.4	359.9	1.5	105802				
QU + RMST		359.9	361.7	1.8	105803				
ALMS		361.7	363.6	1.9	105804				
STPL		363.6	365.15	1.55	105805				
QFPI		365.15	367.9	2.75	105806				
QFPI		367.9	369.9	2.0	105807				
RMST		369.9	370.9	1.0	105808				

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT <i>Wolverine</i>	GROUND ELEV. <i>1396.0 m</i>
HOLE NO. <i>96-57</i>	BEARING <i>0</i>
LOCATION <i>16550E 16787N</i>	DIP <i>-65</i>
	TOTAL LENGTH <i>158.5</i>
LOGGED BY <i>J. Breedlove</i>	HORIZONTAL PROJECT
DATE <i>9/3-</i>	VERTICAL PROJECT
CONTRACTOR <i>CARON</i>	ALTERATION SCALE  <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE <i>HQ → 12.6</i>	
DATE STARTED <i>9/3</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					SO	Chl	CO ₃	Sil	Pol/mt	P-100k	Sphal	CP
21	R H A T			16.5-23.9 RHAT Thinly bedded Rhyolite + Black argillaceous silt								
25	T V N			23.9-26.3 QTVN Qtz in strongly fractured & locally sauged								
26	STFL			26.3-26.5 STFL Fault - sauged & broken core of sericitic siliceous material								
27				26.5-31.1 RHAT								
28	R H A T											
29												
30	T											
31												
32				31.1-40.4 RHAL								
33												
34	R H A L											
35												
36	A											
37	L											
38												
39												
40												
41	T V N			40.4-42.2 QTVN								
42												
43	R H A L			42.2-42.8 RHAL								
44												
45	L											
46												

DEPTH (m)	CODES	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphal	CP
					Sec	Chl	CO ₂	Sil	Fe/As			
42	HAL			42.2-42.8 RHAL Banded silty Rhyolite-grite ± SKT ± Black crystalline - lower contact is gradational to Beds becoming thin + no disc								
48				42.8-54.4 RHAR Thyrny Banded to laminated aphric to G.S. SKT-stria Bands inter-layered w/ black Argillite								
49	RHAR											
50												
51					- Flattened Pyrite masses are common along the foliation + a Fris							
52					- Chlorite alteration is silty silty along Fris							
54	RHAR											
55				54.4-54.8 Broken + gaged Argillite (blackish)								
56				54.8-64.5 RHMS Predominant silty Black argillite to dark grey silt - locally thin aphric Bands at sites (Rhy-chert-stria)								
58					- chl common along Fris + pyrite - Pyrite is also dense - thin thin - likely to exhibit calcaneous Bands							
59	RHMS											
60												
61												
62					- lower contact is sharp Broken against the gage zone							
63	STE											
64												
65				64.5-65.8 STFL Fault - strong Argillite gouge w/ a band. Broken core.								
66				65.8-77.1 RHAR Banded Aphyric silty + chlorite ± sr - Rhyolite-chert Crystalline = chl - ser matrix - core is strongly Broken								
67	RHAT											
68												
69												



DEPTH (m)	COND	UNITS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
						Ser	Chl	CoS	Sil	Pyrite	Sphal	CPY
69.8-74.1					RNAT Banded aphyric siliceous lens + lgn 20.5cm lgned w chlorite Bands that are locally magnetic - - Scattered fgs pyrite - coarse stringy Boudin							
74.1-74.7					FAULT							
74.7-80.9					STFL Sericite gouge + siliceous py green Rubble							
80.9-81.8					RNAT Banded aphyric silica with green bands of chlorite sericite - Py disc aly seric + chl Gls - locally calcareous fine-grained bands - w/ky magnetite aly sericite - chl Bands locally last 10cm is a chlsr schistoly mt.							
81.8-82.7					EXMT above first chlorite rock bands have semi-massive to massive sharp lower + upper cherts							
82.7-84.8					RNAT massive to locally banded py to tanish green aphyric silica + sericite-chl parting							
84.8-89.8					CHAL argillite - fine disc py assoc in the argillite							
89.8-92.3					FAULT							
92.3-98.9					STFL Argillite gouge w siliceous rubble of aphyric phylite-chert-epidote							
98.9-99.6					RNAT massive aphyric siliceous w thin sericite-chl partings							
99.6-99.8					EXMT Fe Mn - stringy chlorite alteration < 2cm bands of semi-massive to massive MT-Bnd & aphyric silica + talcaceous Seric							

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	CHL	CO3	Si	Pol	Pyrite	Sph	CPY
				115-115.3 Fault Breccia								
	STPB			STPB Fault Arg. Hls Breccia = CHL + Carbonate								
116				~ by mass								
				115.3-132.8 Fault								
112				STPL Argillite Gouge + Broken Core								
118				Pred. Black Arg. Hlt gouge								
				locally grey zone Sericite gouge								
119				- Scattered S. g. clss								
120				pl. rts								
121				- locally complete but fragmentary								
122				complete core - Banded Sericite or argillite								
123				- foliation is almost at rt. to								
				46° Parallel to the Core Axis								
124												
125												
126												
122												
128												
124												
130												
131												
132												
133				1328-133.3 Banded Pale green Sericite-carbonate altered tuffaceous								
134				ARSC Argillite - well foliated								
				1337-132.4 Fault zone								
135				STPL Pred. fault gouge of argillite - altered tuffaceous								
136				argillite - also zones of broken argillite core								
132				0.3 Section of tuffaceous Arg. core + CO3 + Si								
138												

DEPTH (m)	CORE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	CP1
					Ser	chl	CO ₃	OSI	Pol/M		
142.45-152 (cont.)											
158	158			RHC							
				at 148.9 is 2cm + clear border							
				thin of pink, waxy Fe CO ₃ w							
				g. to surface							
158.49	158.49			158-158.49							
159	159			RHC							
				Chlorite + Sericite Schist - Banded							
				Carbonate-Silica mixture of							
				interbedded grades out - Ser. Al ₂ Si ₂ O ₁₀ (OH) ₂							
				locally sparse locally - minimal							
				is pred Schistose + green to							
				dark green - locally coarser at							
				stratigraphic position lower + better							

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DRILL LOG

PROJECT <i>Wolverine</i>	GROUND ELEV. <i>1394</i>
HOLE NO. <i>9658</i>	BEARING <i>0</i>
LOCATION <i>16450E 16842N</i>	DIP <i>-73</i>
	TOTAL LENGTH <i>168.2</i>
LOGGED BY <i>J. Breedler</i>	HORIZONTAL PROJECT
DATE <i>9/</i>	VERTICAL PROJECT
CONTRACTOR <i>CARON</i>	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE	
DATE STARTED <i>9/6</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					A	CH	CO ₃	D	PO/MT	SPH	CP
70	RHAC		A ₃₅	62-8-710 Fresh Siliceous aphanitic Bands + Siliceous argillite - lenses + Bands of Silica							
71	SFCL			710-720 Fault							
72	RHAC		A ₄₀	720-730 Fresh Siliceous argillite + Bands del. grey to brownish aphanitic Silica							
73	RHAC		A ₄₀	730-739 Banded and cherty above a zone of sericite + chlorite schists - locally aphanitic							
74	RHAC		A ₄₀	739-78.2 Pyritic Banded Magnetite EXMP: Fe Mn							
75	RHAC		A ₄₀	Same to massive Magnetite Bands + ubiquitous Pyritic MT texture.							
76	RHAC		A ₄₀	Banded to Siliceous + CO ₃ - locally strip chert + Baritic							
77	RHAC		A ₄₀	Bands is ubiquitous or massive Possibly Siliceous Pyrite exhalative							
78	RHAC		A ₄₀	78.2-81.3 Chert - Banded to lensoidal to fractured brecciated appearing grey siliceous - much less well banded Pyrite occurs in some massive lenses or masses along the silty beds + a sub-euhedral radiating texture							
79	RHAC		A ₄₀	81.3-85.3 Grey dark grey Banded EXCP carbonate (calcite) Pyrite "Exhalative" - also a grey possible alt. intermediate tuff? grades out of upper unit + is a sharp cut in lower - Pyrite commonly cubic + locally disrupt discs over - lower chert is sharp							
80	RHAC		A ₄₀	85.3-88.0 thin Banded grey aphanitic Siliceous + thin argillite Bands							
81	RHAC		A ₄₀	86.0-86.3 Fault - Sericite + Chl Gouge							
82	RHAC		A ₄₀	86.3-89.8 Sericite + chl schist to thin Bands + lenses of aphanitic Siliceous locally - thick disc pyrite common							
83	RHAC		A ₄₀	89.8-92.3 Finely laminated Argillite + silt - locally sericite - Thin lenses + Bands of Aphanitic Siliceous are scattered							



DEPTH (m)	CODE	V.M.M's	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
						Ser	Chl	CO ₃	Si	Fe/mt	Pyrite	Sphal	CP
	RHAR				89.8-92.3 RHAR near the interval.								
93	RHAT				92.3-95.4 Banded gray to tanish aphic silica - locally Banded								
94					- Banded w sericite-chl sheet < 2cm - pred aphyre								
95					Bands - last 0.5m in string com alt. of fluxured aphyre silica band								
96	RHAR				95.4-98.5 Black argillite Banded w gray calcareous silt & scattered lenses + Bands of aphyre silica - CO ₃ veils commonly								
97													
98													
99	STFL				98.5-99.3 Fault STFL Argillite P/T Gouge								
100	RHAR				99.3-99.7 Same as 95.4-98.5								
101	RHAT				99.7-101.2 Banded aphyre w/ty silica + Argillite								
102					101.2-104.2 Pred. Aphyre Silical < 2cm Bands w sericite-chl partly - - Thin interval grades and of the upper interval & into the lower interval								
103						- Scattered < 1cm con bands - Fine diss pyrite along Ser/Chl Folie							
104	RHFS				104.2-105.6 Massive to locally Banded Aphyre Silica + up to 30cm CO ₃								
105					105.6-106 Black argillite + thin det gray silica lenses								
106	STFL				106-106.3 Sericite Arg Gouge								
107	RHAR				106.3-107.2 Black argillite + fs silt + aphyre silica lenses.								
108	RHAR				107.2-108.0 CO ₃ now used by silica								
109					108.0-115 Banded det of silt, Black Argillite - det gray aphyre silica + siliceous argillite - thin siliceous lenses - Banded as lens the 1cm - In det string CO ₃ alt side (112-113) - Cone w string broken - chl alteration - pyrite in part								
110	RHAR												
111													
112													
113	RHAR												
114													
115													

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	CP1
					Ser	Chl	PCO3	Si	PO4		
138-138.5				Fault							
139	STPC			Graphitic Argillite F14 gouge							
138.5-139.1				Graphitic argillite - sharp lower clst							
139.1-144.6	SSSC			Stanger to stringy disc sulfided with a carbonate altered Rhyolite to Rhodochrosite fragmented - locally matrix							
140											
141											
142				argillite - locally matrix							
143	G			Black argillite							
144				stringy Sphal + pyrite along foliation or argillite beds							
145				Common - upper clst is sharp along the folia							
144.6-144.8	PMS			Semi-massive Pyrite + Sphal in							
144.8-145.0	PMS			Argillite + CO3 matrix							
145											
145.0-145.2	SSSB			Stanger sulfided w CO3 alt							
145.2-146.0	PMSR			Rhyo fragmented							
146											
146.0-147.2	PMSR			Schist - lenses of alt Rhyolite + fine Gneiss - stringy disc pyrite							
147											
147.2-147.5	ALCB			Carbonaceous Argillite in the Bands of stringy disc pyrite							
147.5-148.5	SSMS			Massive Pyrite + Sphal + stringy disc							
148											
148.5-149.0	Sph Bands			148.5-149.0: Banded Sph Band (Altered) + Pyrite							
149				149.0-149.5: Pyrite Rich Argillite							
149.5				149.5-150.0: Pyrite Rich Argillite							
150				150.0-150.5: Pyrite Rich Argillite							
150.5-150.6				150.5-150.6: Pyrite Rich Argillite							
150.6-155.5	ARMS			150.6-155.5: Pyrite Rich Argillite							
151											
151.0				151.0-151.5: Pyrite Rich Argillite							
151.5				151.5-152.0: Pyrite Rich Argillite							
152				152.0-152.5: Pyrite Rich Argillite							
153				153.0-153.5: Pyrite Rich Argillite							
153.5-150.6				153.5-150.6: Pyrite Rich Argillite							
154				154.0-154.5: Pyrite Rich Argillite							
155				155.0-155.5: Pyrite Rich Argillite							
155.5-168.0				155.5-168.0: Pyrite Rich Argillite							
156											
157											

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	chl	CaCO ₃	DSi	Pol/AT	Ryribs	% Sphal	CPY
158	R H Q L			155.5-168.2 RHQL Average Phylite lap 11. with a carbonate sericite schist matrix								
159			46	- minor sig. druse pyrocks								
160				- carbonate poor								
161				- locally v. string of chlorite								
162				defining the laminated nature of the mineral								
163				- minor CO ₂ bands = silica								
164				- Pretty much uniform through the whole interval								
165												
166												
167				40								
168				168.2-180.6								

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DRILL LOG

PROJECT <i>Wolverne</i>	GROUND ELEV. 1390
HOLE NO. <i>WU96-59</i>	BEARING 0
LOCATION 16650E 16744N	DIP -90°
	TOTAL LENGTH 116.4
LOGGED BY <i>J. Breedlove</i>	HORIZONTAL PROJECT
DATE <i>8/18</i>	VERTICAL PROJECT
CONTRACTOR <i>Caron</i>	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE <i>HQ → 12.2, NQ-</i>	
DATE STARTED <i>9/6</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED <i>9/10</i>	
DIP TESTS	
COMMENTS	LEGEND

DEPTH (m)	CORE SUNNS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Ser	Chl	Co3	qsl	B/Mt	Pyrite	Sphal	CP
0-4.3				No Core Recovered								
4.3-7.0				RHPS Sphane pp-dk py tannish rock well fol. Rholite-chal-dip? - locally are py silty appearing phyllitic Bands - locally fig disc silicate. These are usually eroded out								
7.0-9.1				QTUN Predominantly variably oxidized st matrix Broken + conroy vugs								
9.1-10.7				RHAN Black argillite + Bands + lenses of aphyro Silicea								
10.7-12.2				STPL Fault Broken + lost Core - ground st + siliceous Argillite								
12.2-25.0				RHAR Black Carbonaceous Argillite to drusy siliceous Argillite + scattered Bands + lenses of Aphyro Silicea - locally vails of Co3 - locally Bands of variably calcareous s/st - fig disc pyrite locally lenses of the folia								

A
50

A
64

A
66

A
68

D
H
S

R
H
S

Q
T
U
N

R
H
A
N

S
T
P
L



R
H
A
R

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>RtHcR</i>		<i>94.2</i>	<i>96</i>		<i>105850</i>				
<i>RtHcR</i>		<i>96</i>	<i>98</i>		<i>105851</i>				
<i>SSSG</i>		<i>98</i>	<i>99.4</i>		<i>105852</i>				
<i>SSSG</i>		<i>99.4</i>	<i>99.7</i>		<i>105853</i>				
<i>SSSG</i>		<i>99.7</i>	<i>101.3</i>		<i>105854</i>				
<i>SSSG</i>		<i>101.3</i>	<i>102.8</i>		<i>105855</i>				
<i>RtHcR</i>		<i>102.8</i>	<i>103.6</i>		<i>105856</i>				
<i>RtHcR</i>		<i>103.6</i>	<i>105.6</i>		<i>105857</i>				
<i>STPL</i>		<i>105.6</i>	<i>106.4</i>		<i>105858</i>				
<i>RtHcR</i>		<i>106.4</i>	<i>107.9</i>		<i>105859</i>				
<i>RtHcR</i>		<i>107.9</i>	<i>109.1</i>		<i>105860</i>				
<i>RtHcR</i>		<i>109.1</i>	<i>111.3</i>		<i>105861</i>				
<i>RtHcR</i>		<i>111.3</i>	<i>114.3</i>		<i>105862</i>				

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					SPH	CP
					A Ser	Chl	CO ₃	D Sil	P/MT		
91.2-92.2				Sericate Schist							
92.2-92.3				RHST Fine disseg. - muscovite (Ps)							
92.3-98.1				Banded Chlorite Sericate							
92.2-98.1	R			RHST Phalite lapilli Schist							
94	R			Whitish to grey Banded zone							
95	H			the coarsest large lapilli							
96	C			- Scattered mm scale sphal							
96	R			found - disc - at 96 Semi							
97	R			massive Sphal + 4cm silica							
97	R			STSG + mm scale stromer (30cm)							
97.3-98.1	R			locally red to slight muscovite (Ps)							
98.0-99.6	R			Strong Sulfides (Sphalerite)							
99	R			SSSG + lesser pyrite - 2cm masses at							
99.6-101.1	R			99.6 - Abund Chlorite clots							
99.6-101.1	R			RHCT Red Chlorite + Sericate schist							
101	R			Scattered gtz - Chl = carbant							
101	R			Bands - Scattered pyrite Bnd. clots							
101.1-101.3	R			Qtz + Mn + CO ₃							
101.3-102.8	R			Banded Siliceous argillite							
102.8-105.6	R			SSSC 3 to 4cm massive Sulfides pyrite							
102.8-105.6	R			+ Sphalerite - silica Gangue = Cg							
102.8-105.6	R			RHCT Banded Chl-Ser Schist +							
105	R			argillite							
105	R			- Scattered pyrite nodules +							
105	R			fine silty common - locally							
105.6-106.4	R			1cm masses of sph + Ps - scattered Bnd							
106.4-114.3	R			Fault - Broken + gouged Ser + Chl							
106.4-114.3	R			RHCT Chlorite ± Sericate Schist							
108	R			gtz + fsp - ser lapilli							
109	R			- lapilli are mm to cm							
110	R			no scale							
110	R			- locally the interval is							
110	R			Banded w gtz - silica							
110	R			Possibly large lapilli							
113	R			fine glass pyrite							
113	R			rare pyrite deep the							
113	R			colony							
113	R			- cracks into lower interval							
114.3-116.4	R			Chl ± Sericate Schist							

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DRILL LOG

PROJECT Wolverine	GROUND ELEV. 1400.00
HOLE NO. 96-60	BEARING 000 GN 000 GN
LOCATION 16976.0 N 16300.0 E	DIP -70
	TOTAL LENGTH 288.34m (946')
LOGGED BY J. Breedlove	HORIZONTAL PROJECT
DATE 9/11/96 - 9/17/96	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE  <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE HQ → 44.5, NQ → 288.34	
DATE STARTED 9/11	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED 9/17	
DIP TESTS	
COMMENTS Intercept 252.68 - 262.74 SSMS	LEGEND

DEPTH (m)	CORE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphat	Chl	
					SiO ₂	Ca	CO ₃	SIL	PO ₄				
93	R H A R			9-16.55 RHAR Pred. Black argillite - increasing Bands of Aphyre grey silica									
94													
95					- gradin into the lower interval								
96													
97													
98	R H A R			98.5-100 Pred. variably Siliceous Black argillite to scattered Bands of aphyric silica to lens of aphyric silica									
99													
100					locally in the interval over 10-30 cm silica Bands Pred ligned to thin argillite bands < 0.5cm								
101													
102					- in Black Argillite interval are added thin grey silty Bands.								
103	R H A L												
104					- Pyrite common aly, Fris as is chl.								
105					- Fris de pyrite. - Gradational								
106					105.5-110 RHAL Red Banded aphyric Silica to lesser Black argillite & Banded sil								
107													
108	R H A T												
109					- Med. chl alt aly Fris - locally in interval the var. siliceous black arg grey silst pred. 10-20cm								
110													
111	R H A T			110.0-113.1 RHAT Banded aphyric grey-green to fine green silica Banded to clean carbonate + chlorite + Ba mica									
112					- Core is blocky & rarely blk.								
113	R H A L			STPL R s diss aly see hand									
114				113.1-113.5 Fault - Surf Fris - Blocky RHAT									
115	R H A L			113.5-118.2 RHAL Pred. clean Bands at Red grey silica - in the Bands of Black Argillite									
116													

DEPTH (M)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION							
					Fe	Ca	CO ₃	S	PO ₄	Other	Silica	
				136.9-140.2 Fault								
139	S			STFL Fresh Breccia siliceous epidolite + Argillite gouge								
140	L											
141				140.2-148.8 RHFS Massive to Banded grey-dark grey Rhyolite with scattered str vas								
142	R			- subvol or well frayed + commonly filled w silica vas								
143	H											
144	F			- pyrite or chl common on frs								
145	S											
146	STFL			145.5-148.8 RHFS Qtz UN ± CO ₃ veins + chlorite + Ba-Mica								
147	R			145.8-148.2 RHFS Massive to Banded grey Rhyolite - w scattered argillite partings								
148	H											
149	S			148.2-148.6 STFL Qtz + CO ₃ UN mass w Sanz chlorite-carbonate alt. rock w scattered py veins								
150	R			148.6-153.6 RHAR Banded to lenticular rhyolite to v.f.g. silica (Rhyolite/Qtz) w thin matrix partings of Argillite								
151	H											
152	R			- Bands of calc. s/st. locally - some chl alteration on frs								
153				frs due to frs filled w siliceous								
154	S			153.0-157.6 STFL Fault zone								
155	T			Broken to caged siliceous epidolite (Rho?) to dark grey silty argillite - some chl alteration								
156	F											
157	L			- calc commonly ground								
158				152.6-164.3 RHAR Thin 0.5cm laminae - lenses of Rhyolite (dark grey rhyolite s/rea) possibly chert or quartz w the Argillite partings - red ch alt.								
159	R											
160	H			- Scattered str ± CO ₃ veins after some w chl.								
161	A											

DEPTH (m)	COG	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						
					S	C	C	S	P	F	Sph
					A	B	C	D	E	F	G
181.9-188.2				Fault							
185	S			STFL Amphibole ± Sericite Says predominates - locally core is							
186	T			laminated v.f. - aphyre silica + Amphibole - shaly kink							
187	L			folded							
188											
189	R			188.2-190.5 RHAR Well foliated & thin Banded lenses ± 20.5 Bands							
190	A			of aphyre v.f. - silica Banded a black usually siliceous Amphibole - disc of matrix most common							
191	T			190.5-193.7 TFI Pale grey-green chlorite Banded siliceous stuff							
192	F			upper & lower contacts are gradational - well foliated							
193	I			- up to nod matrix - fine disc of pyrite							
194	R			193.7-195.9 RHAR Banded py-dk aphyre silica predominates over thin							
195	H			20.3 cm amphibole Bands ± Sericite Core disc of most common							
196	A										
197	R			195.9-199.5 RHAR Banded siliceous Amphibole & lenses to bands							
198	H			of grey-dk grey aphyre to v.f. siliceous silt							
199	A			or Amphibole - similar to RHAR py common in dashes along foliation & chief disseminated - lenses etc. green							
200											
201	R			199.5-205.5 RHBR Cry. Rhyolite Breccia							
202	H			matrix v.f. - aphyre - Bre fragments appear Banded & Sericite locally							
203	B			- toward the lower interval siliceous amphibole nodules							
204	R			up the matrix - fine disc of matrix - Sericite & amphibole matrix							
205											
206	R			205.5-207 RHAR Banded siliceous amphibole - Rhyolite lenses							
207	A			Bands - upper etc. + gradational							


MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
RHST		262.74	263.65		105763				
ARX		263.65	265.9		105764				
ARX		265.9	268.0		105765				
QTUN		268.	268.2		105766				
STPL-AMS		268.2	272.35		105762				
"		272.35	272.5		105768				
ARCB		272.5	273		105769				
STPL AMS		273	275.5		105770				
AMS		275.5	276.3		105771				
STPL		276.3	278.4		105772				
STPL		278.4	280.9		105773				
ARCP		280.9	282.6		105774				
STPL		282.6	285.4		105775				
STPL		285.4	287.5		105776				
RHST		287.5	288.34		105777				

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DRILL LOG

PROJECT <i>Wolverme Deposit</i>	GROUND ELEV. 1396 m.
HOLE NO. <i>96-61</i>	BEARING <i>000 GN</i>
LOCATION <i>16349 E Lynx 16937.1 N</i>	DIP <i>-70 -74</i>
LOGGED BY <i>J. Breedlove</i>	TOTAL LENGTH 244.1
DATE <i>9/13/96</i>	HORIZONTAL PROJECT
CONTRACTOR <i>Calon</i>	VERTICAL PROJECT
CORE SIZE <i>HQ → 0,</i>	<p>ALTERATION SCALE</p> <p>absent slight moderate intense</p>
DATE STARTED <i>9/11/96</i>	<p>TOTAL SULPHIDE SCALE</p> <p>traces only < 1% 1% - 3% 3% - 10% > 10%</p>
DATE COMPLETED	LEGEND
DIP TESTS	
COMMENTS	



MINERALIZATION DESCRIPTION 	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						

28.5 31.9 105864

31.9 33.5 105865

36.2 37.5 105866

37.8 40.6 105867

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	CP
					Ser	chl	CO ₂	Si	Fe/Mn		
				45-46.7. Fault							
47	R N A R			46.7-49.4 STPL RMAN Banded Argillite - Gump chips - Thin lenses to Bands of Aphane silica - Siliceous Argillite - Black argillite Pyrite occurs as blky - as masses along the Calm.							
48											
49											
50	R H A L			49.4-51.5 RHAL Banded Aphane Silica ± Green & Black Argillite secondary silica + secondary Argillite A common along Silver - lens gradation							
51											
52	R H A T			51.5-53.3 RHT Banded Aphane Silica py to pyrrhonite ± Sericite + chl ± Argillite - LAM + lam chite gradation							
53											
54	T F I			53.3-59.8 TFI Banded siliceous aphane py to py green silica in thin zones sericite & argillite Bands - These bands are commonly Brownish - Red. ± chlorite silicate locally stringy. - A less common Sericite + Pyrrhonite - Minor Argillite assoc. w Sericite							
55											
56											
57											
58											
59	Q T U N			59.8-60.9 QTUN Gr. w. ± chlorite alt. matrix + pyrite masses							
60											
61	A R M S			60.9-61.4 Fault - STPL							
62				61.4-69.0 ARMS Banded - Striped Black slky argillite to grey dk - grey variegated calcareous slt.							
63											
64											
65											
66											
67											
68											
69											

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION								
					Ser	Chl	CO ₃	Sil	Pol/mr	Pyrite	Sphal	CPY	
70	RHAL			70-72.1 Banded Aphyre silica to v. fine silica - locally calcareous - fine to coarse pyrite also foliation on the argillite - Better Chl on Py's									
71													
72													
73	ARMS			72.1-81.4 Banded Black Argillite a grey to dark grey variably calcareous silt. - fine aphyre streaks - Rhyncholite Brachyella - Py common also foliation within Argillite									
74													
75													
76													
77													
78													
79													
80													
81													
82	RHAL			81.4-85.0 Banded aphyre grey silica predominates over 10.5m bands of argillite ± Sericite									
83													
84													
85	RHAT			85-97.8 Banded aphyre silica (Rhyncholite?) a fine Sericite Bands ± Chl ± Argillite									
86													
87													
88													
89													
90													
91													
92													

DEPTH (m)	CODE	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphal	Cp	
					Seo	Chl	Ep	Si	P/MT				
114-118.3				STFL	Fault								
116	S				Arg. illite gouge + Frayed core								
117	F				- Scattered unble core								
118	L				Arg Brown + Carbonat matrix								
119.3-119.3					Black silty argillite w								
119	RMS				mass seric chl bands + gradational increasing silica Bands granular								
120	R				mass unble								
121	N				119.3-125.9 Massive grey aphanic silica								
121	F				RHFS (Chert-llp-qtz?) w fine white								
122	S				spotted + mass seric chl partings								
123					- Presd Blochy grey to grey green aphanic silica								
124					- locally well Caliche								
124					- locally v.f.g - striae?								
125.9-133.1					Fault								
126					STFL								
128					Fault consists of silty Blochy core Fr. core								
129	S				+ scattered gouge zone (RHFS)								
130	T				- Gouge becomes more prominent where chert								
131	F				+ med. bedded argillite + siliceous grey beds								
133.1-135.3					Banded black argillite / siliceous argillite + Bands + lens of aphanic silica - (arg. disc) + mass chl alt.								
134	R				RHAR								
135	R												
135.3-136.7					Fault zone over argillite								
136	S				STFL								
137	T				Sediments								
138	F				- Arg. mass silty beds + Fr. - prominent gouge zone								

DEPTH (m)	CORRECTIONS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					F	Sph	C
					Si	Ca	Fe	SO ₄	PO ₄			
138.3-138.7				STFL Fault								
139	ARM		A	138.7-139 Silty to siliceous blk drk gray								
			SB	ARM S local phylite argillite								
140				139.0-154.5 Fault Zone								
141												
142				Prod argillite gouge								
143	S			in broken phylites variably chlorite altered argillite chips								
144	T		A	- lower siliceous by chip fragments								
145	F											
146				- St. gasser & var in prod filled w carbons + chlorite mass								
147	L			quite a bit due to the argillitic gouge								
148												
149			SA	- gouge locally tinted green								
150												
151				- scattered carbonate gouge								
152												
153												
154			SA									
155	ARTF			154.5-157 Dark gray argillite								
156				ARTF Luffaceous appears sediment. variably carbonate altered								
157	F			- locally 0.4m massive beds								
158	S		SA	Beds - about 100m or more								
159	STFL			157.2-160 Fault								
160				STFL lost core & pyritic argillite chips								
161												
162			SA	160-160.3 Thinly laminated Black arg								
163				ARCB & some calc. Slat & argillite								

DEPTH (m)	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Pyrite	Sphal	Cp
				S	CH	CO ₂	S	P/A			
160-162.3			bed laminated with depth								
162	ARC B		Black Argillite								
162.3-163.2			Fault								
163	STFL		Black carbonaceous Argillite								
163.5-165.2											
164	ARC B		Black argillite laminated with pyrite & calcareous silt								
165			calcareous								
165.2-166			Fault								
166	STFL		Pyrite Carbonate Gouge								
166-167.2			Black carbonaceous Argillite								
167	ARC B		rod like dense argillite								
167.2-168.2			Blocky black argillite & siliceous								
168	RHST		grey argillite siliceous lenses / bands								
168.2-168.6			Fault Breccia - cemented								
169	STFB		with chlorite + CO ₂ matrix								
168.6-172.8											
170	RHST		Serrate + chert argillite								
171	S		Schist - strongly foliated								
172	T		locally granoblastic								
173			Ex filled with chert + CO ₂								
174			WMS - lower copper etc in oxidation								
172.8-173.8											
174	RHST		Tuffaceous grey well fol								
175			lensular - massive argillite								
175.2-175.7			Blocky black argillite								
176	RHST		+ thin argillite grey siliceous								
175.7-180.2			Fault								
177	STFL		Argillite gouge								
178	ARC B		Black carbonaceous Argillite								
179			with massive pyrite								
180			mass cemented in								
180.5			Silt / argillite grey chert								
181			band								
181.6-192.4			carbonaceous silt								
180.7-181.6			Fault								
181	STFL		Argillite Gouge								
181.6-192.4			massive Sulfide								
181.6-182.6			Pyrite rich fragmented MS								
182.6-183.6			sub rounded, highly fragmented								
183.6-184.6			the fine grained white argillite								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
SSMS		182.6	184.4		105878				
SSMS		184.4	185.7		105879				
SSMS		185.7	186.9		105880				
SSMS		186.9	188.4		105881				
SSMS		188.4	190.4		882				
SSMS		190.4	191.9		883				
SSMS ARMS STFL		191.9	192.7		884				
ARMS-STFL ARMS		192.4	193.2		885				
ARSC ARMS		193.7	194.7		886				
ARTF ARMS		194.2	196.2		887				
RNST		196.2	198.0		105888				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
RHST		198	200.25		105889				
RHST		200.25	202.2		105890				
RHST		202.2	204.8		105891				
ARSC		204.8	207.3		892				
ARMS		207.3	208.9		893				
ARMS		208.9	211.4		894				
ARSC		211.4	213.2		895				
ARMS		213.2	215.8		896				
ARMS		215.8	219.0		897				
STPL		219.0	221.3		898				
		221.3			899				
					900				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>ACTF</i>		<i>221.3</i>	<i>223.7</i>		<i>15899</i>				
<i>ACTF</i>		<i>222.7</i>	<i>226.5</i>		<i>15900</i>				
<i>ACTF</i>		<i>226.5</i>	<i>228.2</i>		<i>105701</i>				
<i>ARG-ACTF</i>		<i>228.2</i>	<i>229.2</i>		<i>902</i>				
<i>STPL</i>		<i>229.2</i>	<i>232</i>		<i>903</i>				
<i>ACTF</i>		<i>232</i>	<i>235.9</i>		<i>904</i>				
<i>ACTF</i>	<i>235.9</i>	<i>235.9</i>	<i>238</i>		<i>905</i>				
<i>ALCB</i>	<i>235.9</i>	<i>238</i>	<i>240.2</i>		<i>906</i>				
<i>STPL-ACTF</i>	<i>238</i>	<i>240.2</i>	<i>240.7</i>		<i>907</i>				
<i>FD FP</i>	<i>240.7</i>	<i>240.7</i>	<i>240.7</i>		<i>908</i>				
<i>RHST</i>	<i>240.7</i>	<i>241.7</i>	<i>242.2</i>		<i>909</i>				
		<i>242.2</i>							

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					SO ₂	Ca	CO ₂	S ₂	P ₂ O ₅	Other
240.7-241.7				Seriate schist green to grey-green locally Barren Bright green - Fine chert pyrite						
241.7-242				Fault Seriate Gneiss						
242-243.7				Grey to green crystalline tuff - white to red carbonaceous - Fine line of locally common - Scattered st. v. st. fragments + fine grains common in sulfurous matrix.						
243.7-244.14				Dark grey to Black Silty shales - Seriate Broken + gouge, Probable Fault.						

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverme Deposit	GROUND ELEV.
HOLE NO. 96-62	BEARING 280 N
LOCATION 16922.0 N 16250.0 E	DIP -78
LOGGED BY J. Breedlove	TOTAL LENGTH 211.83 m
DATE 9/18 → 9/22	HORIZONTAL PROJECT
CONTRACTOR CALON	VERTICAL PROJECT
CORE SIZE HQ → 3.6m NQ → 211.83	ALTERATION SCALE
DATE STARTED 9/18	0 1 2 3 absent slight moderate intense
DATE COMPLETED 9/22	TOTAL SULPHIDE SCALE
DIP TESTS	0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS 145.7 - 157.58 SSMS ω 150.2 - 154.7 RHAH	LEGEND

NOTE: 1st Box vs Box #2
GEOLOGICAL DESCRIPTION

ALTERATION

SIL	CL	CO3	S4	PO4	Other	SP	CP
●	●	●	○	●			

DEPTH (m)	ASOC	NAME	LITHOLOGY	STRUCTURE	DESCRIPTION	ALTERATION	SP	CP
0-6.7	D H C S	DNCS			CASSID + Lost Cone			
6.7-8.5			ARST	/ 50		Black to Dark grey Siliceous to silty Argillite - Fracture well oxidized - fine disse fractures		
8.5-9.4					ARST	/ 50		Qtz VN - small to med oxidized - waxy + frayed
9.4-12.0			ARST	/ 50				Black to Dark grey Siliceous Argillite - Same as 6.7-8.5
12.0-16.2					RHFS	/ 50		Massive to waxy Colored aphyre grey to dark grey phylite scattered fine soft spalling - Sericite Agapay (?) - upper + lower carbonyl are gradational
16.2-24.0			RHAT	/ 50				Banded aphyre grey to dark grey phylite a mm scale partings to bands of sericite + Ag - surface coloration is a reflection of Sericite/ Argillite component - locally massive aphyre grey phyl up to 50cm - locally fine disse pyrite
24.0-25.0								
25.0-26.0								
26.0-27.0								
27.0-28.0								

DEPTH (m)	G.D.	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sph	Cpy	
					S	C	C	S	P			
				92.0-94.2								
93	R			RHAR	Thick Banded gneiss Rhyolite + siliceous argillite							
94	R				- core is strongly broken by + chlon fossils + folia							
95				94.2-99.7	Fault Zone							
96	S			STFL	Scattered argillite Gouge Zones - #							
97	T				- Broken milky white ch Lenses in ch							
98	F				- One lens of rhyolite in the argillite							
99	L				- 10-20cm of CO ₂ alt argillite 94.5-94.7							
100	R			99.7-100.5	Thin Siliceous Black RHAR							
101	H				argillite + scattered lenses + bands of							
102	A				grey rhyolite - all alt + ch, both core - red disc + reddish py							
103	R			102.5-102.7	Qtz in a ch + py rhyolite							
104	S			102.7-108.5	Fault Zone							
105	T			STFL	Red argillite gouge + Aggregates of siliceous argillite							
106	F				- Gouge is minor to red all altered							
107	L				- Red disc py							
108												
109	R			108.5-108.7	Qtz in a ch + py rhyolite							
110	H			108.7-109.5	Thin Siliceous black argillite RHAR							
111	A				bands + lenses of grey rhyolite Rhyolite disc pyrite							
112	T			109.5-111.9	Banded Rhyolite - aphyre RHAR							
113	F				grey brown to grey green to grey banded - 2cm Ser/chl - lower + upper chkl are gradational							
114	L			111.9-116.7	well foliated Rhyolite - TFI							
115					Rhyolite suff from Serinite to blue Serinite/chl - due to reddish pyrite - lower + upper chgrad							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
<i>RHAR</i>	139.3	139.3	141.2		105788				
<i>RHTT</i>		141.2	143.6		789				
<i>ARCB</i>		143.6	145.7		790				
<i>SSMS</i>		145.7	146.3		791				
<i>SSMS</i>		146.3	147.2		792				
<i>SSMS</i>		147.2	148.44		793				
<i>SSMS</i>		148.44	149.9		794				
<i>SSMS</i>		149.9	150.2		795				
<i>RHST</i>		150.2	150.5		796				
<i>RHAR</i>		150.5	152.5		797				
<i>RHAR</i>		152.5	154.5		798				
<i>SSMS</i>		154.5	154.82		799				
<i>SSMS</i>		154.82	155.22		1057800				
<i>SSMS</i>		155.22	155.98		125901				
<i>SSMS</i>		155.98	157.58		502				
<i>SSMS (RMS)</i>		157.58	159.4		125503				
<i>LHAR</i>		159.4	161.9		504				

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT Wolverine Deposit	GROUND ELEV. 1402 m
HOLE NO. 9663	BEARING -90 - Vertical
LOCATION 16867 E 16350 N	DIP -90°
	TOTAL LENGTH 184.4
LOGGED BY J. Breedlove	HORIZONTAL PROJECT
DATE 9/18	VERTICAL PROJECT
CONTRACTOR CAPEN	ALTERATION SCALE
CORE SIZE HQ →	
DATE STARTED 9/18	TOTAL SULPHIDE SCALE
DATE COMPLETED 9/22	
DIP TESTS	
COMMENTS 113.1 - 130 SMS at the re-located Agg. Note	LEGEND

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal	Cpy
					ST A	ST B	ST C	ST D	Other		
93				93.0-93.5 ARS5 micellite							
94				93.5-94.3 Fault - micellite STFL gouge & lesser py. pellets							
95				94.3-99.0 ARFF Vermilion micellite Black An. illite micellite S/S							
96				micellite banded to horizontal							
97				pyrite grey rhodochrosite & band of alite							
98				green thin sericite schist							
99				99.0-101.3 ARFF An. illite & lesser alite							
100				STFL pyrite - white gouge							
101				folded hk associated sericite - sharp bedded							
102				101.3-103.3 RHST 10-15 cm green sericite - 1/2 - 1/4 inch							
103				Schist - mic crystalline bands - py occurs in elongate lenses along the folio							
104				103.3-105.2 STFL Fault - An. illite - sericite & py + low str. quartz in py. beds up to 2cm with white streaks							
105				low Ser. Br. alt. w. red stringy druse py							
106				105.2-113.1 ARMS Black w. creamy carbonaceous micellite - thin grey stripes at locally calcareous S/S							
107											
108											
109											
110											
111											
112											
113				113.1-114.8 IR. 1-114.8 massive S. illite							
113.5				SSUS 113.1-114.8: Sph. py. part vs - core is well broken & highly calcareous							
114.0				core - thin bands of lower grade - illite - calc. masses A							



DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					Sphal.	Cp	
					Sy A	Ch B	Co C	So D	P/Z			
126				SSS 125-126.5								
126.5				126.5-126.6								
127				127-127.5								
127.5				127.5-128								
128				128-128.5								
128.5				128.5-129								
129				129-129.5								
129.5				129.5-130								
130				130-130.3								
131				130.3-130.6								
132				130.6-131.5								
133				131.5-131.8								
134				131.8-132.3								
135				132.3-133								
136				133-134								
137				134-135								
138				135-136								
139				136-137								
140				137-138								
141				138-139								
142				139-140								
143				140-141								
144				141-142								
145				142-143								
146				143-144								

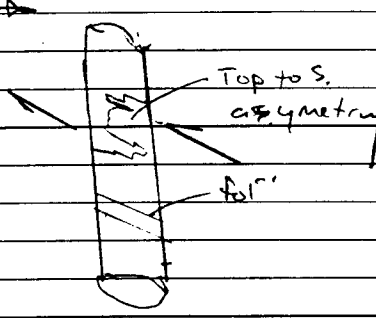
PAGE 14 OF		PROJECT: Wolverine		HOLE NO. 9663					
MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
RHST		144.2	145.6		105948				
ARX		145.6	149		919				
ARX		149	151.4		105950				
ARX		151.4	153.6		175601				
RHST-STFL		153.6	155.1		602				
RHST		155.1	157.7		603				
RHST		157.7	159.2		604				
STFL-ARMS		159.2	161.6		605				
Pymha STPB		161.6	162.6		606				
STFL		162.6	164.7		607				
STFL		164.7	167		608				
STFL-ARMS		167	169		609				

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					PYRIT	SPHAL	COPY
					SP	CL	SO	SI	PO/MI			
					A	B	C	D				
168	STFL			168.0-168.0 Fault								
169	STFL			168.8-169.7 <i>Q</i> - <i>...</i>								
170	STFL			169.3-169.6 Fault - <i>...</i>								
171	ARTF			169.6-175.2 <i>...</i>								
172	ARTF			<i>...</i>								
173	ARTF			<i>...</i>								
174	ARTF			<i>...</i>								
175	STFL			175.2-176.6 Fault argillite + Sericite								
176	ARTF			175.6-176.8 Same as 169.6-175.2								
177	STFL			176.8-179.6 Fault - <i>...</i>								
178	ARTF			178.6-180.2 Same as 175.2-176.6								
179	ARTF			<i>...</i>								
180	ARTF			<i>...</i>								
181	ARTF			180.7-180.9 Phyllite argillite <i>...</i>								
182	ARTF			180.9-181.4 Banded black argillite + <i>...</i>								
183	STFL			181.4-181.6 Fault - <i>...</i>								
184	ARTF			181.6-184.4 Banded black argillite <i>...</i>								
184.5	ARTF			<i>...</i>								

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 1477m
HOLE NO. WV-96-64	BEARING 000° - GRID NORTH
LOCATION WOLVERINE ZONE L16250E 17117N	DIP -86.5
	TOTAL LENGTH 405.1
LOGGED BY David Terry / G. Bradshaw	HORIZONTAL PROJECT
DATE September 21, 1996	VERTICAL PROJECT
CONTRACTOR F. Boisvenue Diamond Drilling	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE NQ II	
DATE STARTED September 20, 1996	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED Sept. 27/96	
DIP TESTS 60.9 - 339° - -88° 127.7 - 087 - -89.5 185.7 - 212 - -87 304.6 - 196 - -77	LEGEND
COMMENTS	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0.0 to 1.83				DHCS CASING							
1.83 to 5.13	48			ARTF ARGILLACEOUS TUFF - medium grey colored. - fine-grained - tuffaceous. (ccs). - wk cc; mod soft - grey argillaceous fol - NUS; locally trace FeO							
5.13 to 18.8	45			ADTT ANDESITE-TUFF - medium-pale green colored - mod fold - locally banded to cc-py bands up to 2cm in thickness - rare lithic clasts of dark chlc mate to 5mm; subrounded. - ser>chl alt'n (green) - overall +/- 1% fg diss - stringer py (associated to carb bands). 5.63-6.0 - zone of >80% qz>>Anz veining; qz - milky white; NUS. - @7.59 - 2cm qz-cub on //fol; NUS. - 8.44-8.61 - milky white qz cub on //fol; NUS.							
	30			N → 							
				- @12.72 - minor po-spy assoc'd to qz cub veinlet.							
18.8 to 32.66	42			ADTF ANDESITE FRAGMENTAL - pale green matrix w ~25-35% subrounded to subangular clasts of 4mm-20mm size. - fol/alt'n ser>>chl - locally conid (8-10%) tiny blk subhedral hbl zthg (chld) - clasts slightly darker green colored & more glassy -							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
24				- is harder than the msc which is more seric								
25				- some cherts are gully flg + lls. (cleavage?)								
26				- locally unit is cut by qz-cmb veins/veinlets up to 20cm but generally < 2cm.								
27	94		40	- @ 20.9 - 2 2-4 mm qz-cmb veins sub to c/a								
28				@ 21.7m - 2cm qz-cmb v/a								
29				22.55 - 22.74 - irregular zone of qz-cmb-ser-chl.								
30				- overall to 1% by py, locally 1-2% disid by ep								
31				- @ 27.2 layering @ 54° to l/a. primary fol' @ 40° to c/a.								
32												
33	70		40	32.66 to 33.52 ADITT ANDESITE TUFF - med green coloured - similar to interval between 5.13-18.8m								
34				33.52 to 36.43 ADTE - medium green coloured - similar interval between 18.8 & 32.66m - more fol'd - good seric fol' planes - Tr - 1% Fe disid py								
35			30									
36				36.43 to 43.95 ARMS ARGILLITE - black coloured - common light coloured bands on cm - mm scale @ c/a fol'								
37												
38			50									
39				- up to 3cm veinlets // to subparallel c/a - new upper etc several 2cm bands of appt-green ser-actite								
40				- @ 39.3 - several 1cm qz veinlets spaced < 1cm apart sub to parallel c/a								
41				- @ 40.23m white qz cuts v/a // to sub c/a.								
42												
43												
44				43.95 to 50.46 RHFR RHYOLITE FRAGMENTAL - med to dark green coloured w argillaceous inx - fol' planes and lighter coloured v. med siliceous aplastic fragments								
45			50									
46												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
70				- medium green coloured - rel. homogeneous by texture							
71				- serden comp >> chl - clots (exposing lbl.)							
72				- minor mg sil flakes on foil planes							
73				- upper contact contains interlayers of more siliceous/carbonaceous component of above lithology							
74				- moderate cc in foil (stringers) abundant							
75				- last 2m above lower etc the colour changes to dirty grey and out of qz-cc stringers increases.							
76				- overall to fg py, 75.33-75.75 - qz-cc.							
76.92 to 77.74				RHR RHYOLITE FRAGMENTAL							
77				- medium-dark grey-green.							
78				- mass. siliceous aplite rhyolite w/ fracture - foliation slips of dark argillaceous material, to fg py.							
78				- fragments upto several cm size							
77.74 to 80.17				ARR CARBONACEOUS ARGILLITE WITH RHYOLITE LAPILLI 30 cm or more lower etc.							
80				- black to light grey qz cut strands, to fg py							
80.17-81.95				QTVN QUARTZ VEIN							
81				- milky white; minor cc; to 2-3% fracture							
81.95-				RHR RHYOLITE FRAGMENTAL							
82				- light grey green coloured siliceous aplite rhyolite fragments with a dark coloured argillaceous matrix / foliation plane domain in between.							
83											
84											
85				- fragments generally display a flattened (sericite) morphology and range in size up to 3-4 mm in size - generally 1 cm size.							
86											
87											
88				- minor cc associated w/ argillaceous fragment matrix content							
88.78-88.93				QZ-CC VEIN w/ minor chl slips / Nls.							
89											
90				- overall to 2% fr. material py localized along dark argillaceous slip bounding fragments and coating X- ² within fractures							
91				subll to chl and subll foil.							
92											

Table with columns: MINERALIZATION DESCRIPTION, TOTAL SULPHIDES, SAMPLES (FROM, TO, WIDTH), SAMPLE NUMBER, ASSAYS. The table contains multiple rows of data entry fields.

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
93				98.19-101.25-- lighter colored Serpentine replaces much of the dark argillaceous matrix banding							
94				the amphibole is mostly serpentine 101.98-106.13 RHR is becoming							
95				more argillaceous and contains local 3-5cm wide zones of argillaceous gouge.							
96				* - 2.90% core remaining as for 106.13-115.52m but to							
97				medium gray RHR is dark argillaceous for 1/MX.							
98				111.7-112.0 ² - more argillaceous interval w minor carbonaceous fault gouge.							
99				115.52- more argillaceous RHR again to minor 3-5cm zones of fault (thin?) gouge.							
100				- overall to - 2% fsp; locally coarse beds of interbedded fsp py - fucoson.							
101				- 116.79-117.14 small ARMS interval							
102											
103											
104											
105											
106											
107											
108											
109											
110											
111											
112											
113											
114											
115											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
118.57 to 119.0				STFL - FAULT ZONE - in medium green oxidized gscs/r							
119.0 to 122.24				RHFS BANDED APHYRIC RHYOLITE - SILICA - medium to light green crystalline - some fine scale definition - some green at level - no cc of py - some small sil - no for							
122.24 to 124.46				STFL FAULT ZONE - quartz - some - chlorite - calcite zone							
124.46 to 125.11				RHFS - BANDED APHYRIC RHYOLITE AND SILICA - as above between 119.0 and 122.24							
125.11 to 126.18				RHFR - RHYOLITE FRAGMENTAL - very brown - stained - some to RHFR some massive - some brown staining - some siliceous fault zones - is composed of brownish - some - some - some assemblage - 2% for // to py staining							
126.18 to 126.94				RHAT - ARGILLACEOUS RHYOLITE LAPILLI TUFF - medium grey argillaceous rhyolite (20%) - in hard soil - some - some - to for							
126.94 to 127.81				RHFR - RHYOLITE FRAGMENTAL - as above between 125.11 and 126.18							
127.81 to 128.72				RHAT - ARGILLACEOUS RHYOLITE LAPILLI TUFF - as above between 126.18 and 126.94							
128.72 to 133.91				ARSI SILICEOUS RHYOLITE - medium to light green crystalline - some fine scale definition - some green at level - no cc of py - some small sil - no for 130.76 to 131.0 - staining zone							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
39				1329.1 to 1355.3 STEEL FAULT ZONE							
40				135.53 to 142.8 RHFS BANDED APHYRIC RHYOLITE AND SILICA							
41											
42											
43											
44											
45											
46											
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
60											
61											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
164											
165											
166											
167				167.34 - 170.39	DNLC - LOST CORE						
168											
169											
170				170.39 - 171.09	STFL - FAULT ZONE						
171	60				- medium and coarse grained quartz pyrite + magnetite						
172	55			171.09 - 172.50	EXMT - Banded magnetite iron fm						
173					- medium to coarse grained magnetite pyrite + hematite						
174	60			172.50 - 173.88	RWEE - Banded iron formation						
175	65				- medium to coarse grained magnetite pyrite + hematite						
176	55			173.88 - 175.55	EXMT - Banded iron formation						
177					- medium to coarse grained magnetite pyrite + hematite						
178				175.55 - 175.38	STFL - FAULT ZONE						
179					- fine grained magnetite + hematite						
180				175.38 - 179.53	EXMT - Banded iron formation						
181					- medium to coarse grained magnetite pyrite + hematite						
182					- medium to coarse grained magnetite pyrite + hematite						
183					- medium to coarse grained magnetite pyrite + hematite						
184					- medium to coarse grained magnetite pyrite + hematite						
185				182.53 - 182.54	DNLC - LOST CORE						
186											
187											
188				182.54 - 185.6	STFL - FAULT ZONE						
189					- fine grained magnetite + hematite						
190											

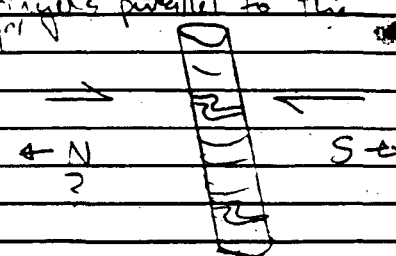
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
185				185.6-186.3 HLC							
186											
187											
188											
189				188.4-189.8 STEEL FAULT ZONE							
190				- medium to coarse grained 20FS - 20% quartz 20FS - 20% quartz 20FS - 20% quartz							
191				- medium to coarse grained of coarse and medium grained max size = 1cm							
192				191.57-192.18 - chlorite - test used							
193				thin - zone = 10cm to 15cm							
194				- 4-5% magnetite - sub-millimetric							
195				195.86-196.6 FINE BANDED AMPHIBOLITE							
196				- medium to coarse grained 196.12-196.92 IRG - 10% quartz 196.12-196.92 IRG - 10% quartz							
197				- medium to coarse grained - coarse grained - and 20% quartz							
198				- with most of 10% quartz - in some lens (198.1)							
199											
200				199.92-200.51 STEEL FAULT ZONE							
201				- black sand nodules - fine grained and coarse IRG							
202				- med cc in coarse							
203											
204											
205											
206											
207											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
231	75			Continuation of tr-1% fgy-mg dissd py 328.78-329.15 Sericite + amt chlorite + gngls							
232				231.35-239.0 STFL - FAULT ZONE							
233				- light grey-green coloured breccia and crushed RHFS - grey siliceous ch'ly rock & sericite defining spaced rock downhole.							
234	70			239.0-237.84 ARCB CARBONACEOUS ARGILLITE							
235				- black to siliceous to carbonaceous argillite							
236				- moderately to strongly broken core							
237	65			- mod amt of py ~ 1mm gr cc - stringers (P ¹) - some to 1cm - 1-3% dissd and stringer py							
238				237.84- RHFS BANDED APHYRIC RHYOLITE							
239				- light grey to grey-green coloured.							
240				- small zones to 1" // fgy dissd cc.							
241	25			- sericite defining spaced rock cleavage (1cm)							
242				- weakly defined + brecciated very siliceous & ch'ly looking							
243				- overall 1-3% dissd and fgy-mg stringer py, non mt'c, trcpyl							
244				- tr- 2% dissd and delimited downhole							
245				- @ 247.73 - zone with grey siliceous RHFS to mod amt of dissd cc.							
246	25										
247											
248											
249	68			245.6-253.68 ARSI SILICEOUS ARGILLITE							
250				- black, fine-grained, locally looks tuffaceous - and grades into siliceous argillaceous rhyolite.							
251				- local fracture blue-green coloured chlorite							
252				- 2-3% fgy py as 1" parallel bands up to 5mm in width, commonly associated to blue-green ch'ly.							
253				- non mt'c, minor foil parallel cc.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
253.68-254.97				STFL FAULT ZONE - broken core and gouge of black fo ARSI							
254.97-256.13	70			RHAR INTERBEDDED RHYOLITE ARGILLITE - grey argillite siliceous-Rhyolite of dk Arg 4 fol n; 1st fol - g2 carbons							
256.13-256.62	70			STFL FAULT ZONE - broken core of RHAR							
256.62-258.27	73			RHAR INTERBEDDED RHYOLITE ARGILLITE - as above between 254.97-256.13; on scale banding; g2 carbons // fol - 1cm - dark							
258.27-259.08	73			STFL FAULT ZONE - broken core of RHAR							
259.08-260.26	70			RHAR INTERBEDDED RHYOLITE ARGILLITE - as above between 256.62 and 258.27							
260.26-265.17				STFL FAULT ZONE - broken to crushed core of dark RHAR + ARSI - local blue/green chlorite coating fol' planes / fractures - breccia of py blks (mineral) assoc'd w a stringers.							
265.17-265.77	72			ARSI SILICEOUS ARGILLITE - blk siliceous; fol' 1-2 to class'd / stringers; nodules.							
265.77-266.67				STFL FAULT ZONE - crushed and broken core of ARSI							
266.67-270.21	70			ARRT ARGILLITE WITH RHYOLITE LAPILLI - blk argillite matrix to light yellow/green columnar deposit lapilli up to 1cm in diam; composition 30-50% of fault; many siliceous bands assoc'd w nodules; 1-3% py locally (g2/s)							
270.21-270.91	65			STFL FAULT ZONE - black fault gouge.							
270.91-271.27	60			SSMS MASSIVE SULPHIDE - see opposite page.							
271.27-271.93	70			ARRT-ARGILLITE WITH RHYOLITE LAPILLI - similar to above (266.67-270.21); g2 carbons							
271.93-272.46	70			SSMS MASSIVE SULPHIDE - see opposite page.							
272.46-272.56	70			QTVN QUARTZ VEIN - 9cm wide g2?? vein @ base of SSMS.							
272.56-275.11				STFL FAULT ZONE - crushed and broken black siliceous argillite w fold + fol' // clastic							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS		
		FROM	TO	WIDTH				
		253.6	254.97		172271			
		254.97	256.5		172272			
		256.5	258.0		172273			
		258.0	259.5		172274			
		259.5	261.0		172275			
		261.0	264.87		172276			
		264.87	266.92		172277			
		266.92	269.5		172278			
270.41-271.27								
- interval consisting of 60-70% pyritic sulphide; py-mg or leaded to subleaded py. ass. mass bands in blue gr. area.								
- bands may form several m. to 7 cm.								
- lower 7 cm. band contains ~								
5% light brown py. spl.								
- non m.p.c.								
- sulphides hosted in qz-c gangue.								
		268.5	270.21		172279			
		270.21	271.27		172280			
271.93-272.46								
- interval of mass pyrite-sulphide in quartz-calcite gangue.								
- upper 10 cm. is strongly reddish brown coloured and contains								
* 60-70% spl. & 10-20% m.p.c.								
- lower portion contains 10-20% brown spl. and 50-60% m.p.c.								
- interval is contorted and contains								
drag folds and fault textures								
		271.27	271.93		172281			
		271.93	272.46		172282			
		272.46	273.56		172283			
		273.56	275.11		172284			
		275.11	276.46		172285			
		276.46	277.62		172286			

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
277	67			275.11-277.62 ARSI SILICEOUS ARGILLITE - black fine-grained - hard siliceous. - 1-2% py as stringers 1/16 to 3mm							
278				277.62-281.56 RHFS BANDED APHYRIC RHYOLITE - light to medium grey colored - very fine - chly and wood. - ser developing on cm scale spaced deveges - 2-3% fmg py overall to distal beds // fol. minor to none.							
280											
281	70			281.56-283.46 ARSI SILICEOUS ARGILLITE - black, very fine-grained and very hard - CH4. - 2-3% fg-py as stringers sub parallel to fol. @ 282.01 - 1/8 cm							
282											
283	68			283.46-284.38 RHFS - BANDED APHYRIC RHYOLITE - light grey-green colored, more sericite than RHFS btwn 279.62-281.56 - tr-22 to dissol py							
284	70										
285	76			284.38-285.68 ARSI SILICEOUS ARGILLITE - black fine-grained chly argillite							
286	70			285.68-286.31 STFL FAULT ZONE - crushed ARSI and gouge.							
287											
288				286.39-309.89 ARSI SILICEOUS ARGILLITE - black fine-grained, cherty. - 1-3% fg distal py - yellowish stained quartz veinlets to 3mm wide @ - 30° to c/a. - only minor pockets and fracture coatings of cc. - locally subrounded clasts of black ARSI, generally lighter coloured than the black matrix - common 2-5-dry folds in light coloured siliceous veinlets up to 3mm in width. - 1-3% dissol py to fg py in stringers parallel to the fol.							
289											
290											
291											
292											
293											
294											
295											
296											
297											
298											
298											



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
299				- lower contact of ARSI with RHFS grades over a distance of ~30cm							
300											
301											
302											
303											
304											
305											
306											
307											
308											
309											
310				309.89-312.29 RHFS MASSIVE TO BANDED APHYRIC RHYOLITE							
311				- medium grey coloured, hard siliceous							
312				- minor spherule defining "fol" planes							
313				- approx 2-5% disseminated pyrite (stylonite) and disseminated concentration							
314				312.29-314.8 ARSI SILICEOUS ARGILLITE							
315				- dark grey to black colored							
316				- blk argillaceous "fol" planes							
317				planned - other siliceous; 1-3% disseminated pyrite							
318				- small "Z" foliation folds in darker bands							
319				314.8-324.9 RHFS MASSIVE TO BANDED APHYRIC RHYOLITE							
320				- medium to light grey coloured							
321				- ex defines spaced cleavages (alms)							
				- light spots common - rock very white det. phases??							
				- lower light grey bands up to							



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
322				1cm otherwise rock - 1-3% fg-my py - up to 1-2mm wide seams parallel to the fol.								
323				- locally green (chl-Ba?) mica coating fractures oblique to fol. <i>Benava 323.84m</i>								
324				324.9-328.61 CHTF CHERM BANDED RHYOLITE TUFF								
325				- light brown and grey banded on a cm scale								
326				- yellow-brownish tinged ser defining foliation								
327				- minor cc in light coloured siliceous bands // fol.								
328				- 18cm qv - subeq/gray w chl spots @ upper etc. 1-3% pyro seams // fol (1-2mm wide)								
329				328.61-334.77 EXCP CALCITE-PYRITE EXHALITE								
330				- banded gray/white/pyrite. coarse - 1cm scale grey siliceous bands w 5-7% fg-my dissd to stringer py.								
331				- semi-mass pyrite bands up to 31cm - py in fg-my oriented to subbedal nodules w qz-cc gangue; locally minor sph in fg fol // gangue; last 7cm - 2-5% sp.								
332				- pyrite bands @								
333				329.18-329.3 330.59-330.66 333.5-333.7								
334				329.43-329.57 330.71-330.87 331.1-331.3								
335				329.63-329.95 331.37-331.67								
336				334.77-339.29 SSMS MASSIVE SULPHIDE								
337				- chalcopyrite and galena like massive sulphide								
338				- upper and lower contacts are both relatively steep and well defined - lower etc is irregular.								
339				- see opposite page for detailed description								
340				- cla subhorizontal angle due as a result of drag folding in the MS.								
341				339.29-340.65 RHFS MASSIVE-BANDED APHYRIC RHYOLITE								
342				- grey and massive to banded - ser on fol; upper 5cm - con Armes up to 1mm								
343				340.65-341.95 ARSI SILICEOUS ARGILLITE								
344				- dark grey to black; gradational upper contact; qz carbonate bands // fol - 3-5% py as fg-my fol // seams to 6mm								
345				341.95-344.91 STFL FAULT ZONE								
346				- black argillaceous gouge and broken (oristat) cor. fol // qz to 1cm								

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					A	B	C	D	E			
345	75			244.91-345.61 ARTF TUFFACEOUS ARGILLITE - light green coloured laminated or light grey gz-cc bands to 1cm wide; 2-9% pyroxene								
346				245.61-346.11 BHTI RHYOLITE TUFF - light grey - gradational with above; 23% py								
347				346.11-348.77 STFL FAULT ZONE - black fault gouge and APSL in semi-mats py. bands to 1cm wide.								
348												
349	70			348.77-350.68 FDPH FELDSPAR PORPHYRY - light grey-green coloured - 10-15% white feldspar phenocrysts, subhedral to euhedral and up to 1cm in length. - ore encased in ge to 5-8mm - crystals in a matrix of gz-ser w ser defining fol' planes. - upper 50 cm of unit contains 40-50% fol' gz veins up to 6cm in width or pockets. -- in this area more ser developed. - 1-3% dissid to stringer py.								
350	70											
351												
352												
353												
354												
355				350.7-357.0 RHXT- RHYOLITE CRISTAL TUFF - light grey-green coloured. - 5-10% dissid (heterogeneous) 2-4mm commonly partly disaggregated gophite gots - sericite defining fol' planes. - 4-16% f. dissid 1 py - localized f. zones								
356												
357												
358												
359												
360				353.87- unit becomes darker coloured and argillaceous. - broken core at lower contact.								
361				357.0-366.6 DARK GREY MASSIVE FINE GRAINED SILTSTONE SLST soft massive minor silicification								
362				(359.4-362.8 - lost core + gouge) (365.4-365.7 - gouge + broken core)								
363												
364				Trace sphalerite @ 358.9 f.g. disout. fdn para 1mm band. <1% f.g. py stringers. Sharp lower contact.								
365												
366				366.6-368.8 GREY FINE GRAINED RHYOLITE LAPILLI TUFF RHTF								
367												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
368				20-30% sedimentary component, 5-10% calcite. Generally white < 1mm siliceous bands and clasts + closely packed and well foliated within a darker grey fine matrix. Rare blue round atc eyes.							
369				calcite occurs as foln parallel blebs. Shrp. lower contact.							
370											
371											
372				368.8-377.6 GREY/BLACK MASSIVE-TUFFACEOUS APHANTIC-FINE GRAINED LOCALLY CARBONACEOUS ARGILLITE							
373				ARTF 1-2 mm calcite bands common throughout unit, mainly black aphanitic argillite w/ sub-mm calcareous and siliceous bands. Occasionally becomes more tuffaceous w/ siliceous bands and lenses occupying 30% of rock.							
374				- rare green chloritic material along fractures.							
375				- (375.0-375.5 wht qv w/ min cc. + incl. of chl and argillaceous wall rock)							
376				- zone of quartz veins (up to 50cm) from 372.8-376.7. ~ 20% H. vein in this interval							
377				- local gouge zones, spread throughout unit, contorted foliation + minor brecciation.							
378				- moderately carbonaceous throughout unit - aphanitic 390.2-390.9							
379				- lower contact gradual.							
380				- < 1% f.g. diss - foln para. pyrite.							
381											
382											
383											
384				(383.7 - grainy textured tuffaceous argillite (siltstone?) - contains prominent bands from 384.7-384.8 of calcite - pyrite - oxhalite? up to 2cm)							
385											
386											
387											
388											
389											
390											

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DRILL LOG


PROJECT <i>Wolverne Deposit</i>	GROUND ELEV. <i>1397 m</i>
HOLE NO. <i>966B</i>	BEARING <i>035°</i>
LOCATION <i>16300 E 16890 N</i>	DIP <i>-75</i>
	TOTAL LENGTH <i>175.9</i>
LOGGED BY <i>J. Breedlove / G. Bradshaw</i>	HORIZONTAL PROJECT
DATE <i>9/23</i>	VERTICAL PROJECT
CONTRACTOR <i>Calon</i>	ALTERATION SCALE  <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE <i>NQ → , NQ</i>	
DATE STARTED <i>9/23</i>	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED <i>9/28</i>	
DIP TESTS <i>63.1 → 41 → -77.5 124.1 → 40 → -80 154.5 → 43 → -83</i>	
COMMENTS <i>Massive Sulphides from 147.5-153.3</i>	LEGEND

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS		
		FROM	TO	WIDTH				
STFL		92	93.8		175528			
AMS		93.8	96.3		529			
AMS		96.3	98.8		530			
AMS		98.8	100.3		531			
Hw ALB		100.3	102.1		532			
"		102.1	103.5		533			
SSMS		103.5	104.4		534			
SSMS		104.4	105.6		535			
SSMS		105.6	106.7		536			
RHST		106.7	107.7		537			
ALF		107.7	108.2		538			
108.2 RHST		108.2	110.3		539			
RHST		110.3	112.3		AS540			
RHST		112.3	112.6					
RHST		112.6						

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DRILL LOG

PROJECT <i>Wolverine Deposit</i>	GROUND ELEV. <i>1398 m</i>
HOLE NO. <i>9665</i>	BEARING 150° <i>215°</i>
LOCATION <i>16250 E</i> <i>16922 N</i>	DIP <i>-70</i>
	TOTAL LENGTH <i>208.2</i>
LOGGED BY <i>J. Breedlove / G. Bradshaw</i>	HORIZONTAL PROJECT
DATE <i>9/22</i>	VERTICAL PROJECT
CONTRACTOR <i>Cohen</i>	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE <i>142 →</i> , <i>NQ →</i>	
DATE STARTED <i>9/22</i>	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED <i>9/27</i>	
DIP TESTS <i>63.1 - 322 - 68</i> <i>162.9 - 212 - 68</i>	LEGEND
COMMENTS	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
391											
392											
393											
394											
395											
396											
397											
398				397.6-402.1 STGS.	BLACK GOUGED ARGILLITE - carbonaceous smillite gouge, contorted bedding, some brecciation, minor grey tuffaceous component.						
399											
400											
401				401.1-405.1 RFXL	GREY CRYSTAL LITHIC RHYOLITE LAPILLI TUFF 10-20% argillaceous component as a fine black matrix. dense <1mm- 2mm siliceous bands and lenses well foliated, calcite blebs throughout (5-10%). <1% crudely banded f.g. pyrite.						
402											
403											
404											
405				 405.1 - EDH							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
181											
182											
183											
184											
185											
186											
187											
188				187.5 - 208.2	GREY FINE GRAINED TUFFACEOUS ARGILLITE						
189				ARTF	similar to 159.4 - 167.9 - locally						
190					very tuffaceous (RHAT) with						
191					1-2 mm siliceous lenses which						
192					may be lapilli. Local minor						
193					quartz veining						
194					tr fine diss. py. throughout						
195					local fine py bands up to 2 mm.						
196											
197											
198											
199											
200					(203.5 - rusty red mineral - hematite?)						
201					(206.5 - 206.7 - quartz veining)						
202					(207.5 - 207.9 - quartz veining)						
203					208.2 - end						

DEPTH (m)	CORRECTION	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					S F A	C A L	G O 3 G	S Z D	P H /AT	Other
				99.6-99.4 Fault						
	STFL			STFL Chlorite + Sericite zone & Silicification						
70	RIKT			69.9-69.8 ^{STFL} Sericite Schist w/diopy						
				69.9-70.7 Banded to interbedded qtzite						
71	RHAN			RHAN Siliceous banded - var. siliceous Amphibole						
	STFL			70.7-71.6 Amphibole Fault zone + Break						
72	A			STFL Siliceous schist						
				71.6-71.3						
73	R			ADTF Banded amphibolitic schist						
				grey to light - var. calcareous						
74	T			green to pale green						
				Sericite schist						
75	F			- contacts are gradational						
76	R			71.3-71.3 Var Sil amphibole in thin lenses						
				RHAN & bands of grey Amphibole						
77	R			min. calc. - increasing Amphibole						
				contact grad. into lower interval						
78	R			71.3-71.0 Coarsely Banded Sericite						
				RHAN med. grey green Amphibole - lower interval						
79	T			Coarsely Banded Sericite						
80	RHAN			71.0-71.3 Banded grey Amphibole + Black amphibole						
				71.3-81.2 Var Sil schist to Black amphibole						
81	R			amphibole in thin grey Amphibole						
				lenses -						
82	H			- Amphibole becomes banded						
				toward lower end of						
83	A			interval becoming somewhat						
				greenish grey schist						
84	R			83.2-99.0 Fault Zone						
				STFL						
85	S			Variable intervals of						
				siliceous grey schist						
86	T			+ zones of Amphibole zone						
				to Sericite zone						
87	F			- 10-20cm of highly white						
				schist mass of the above						
88				- 0.2-0.4 meters of siliceous						
				diopy-black amphibole - calcite						
89				core + intervals of Ser						
				Schist						
90	L									
91										
92										

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
ARCB		139.3	141.1		622				
ARCB		141.1	143.9		623				
ARCB		143.9	145.7		624				
ARCB		145.7	147		625				
ARCB		147	147.5		626				
SSMS		147.5	147.9		627				
SSMS		147.9	148.1		628				
SSMS		148.1	149.4		629				
SSMS		149.4	149.7		630				
SSMS		149.7	151.2		631				
SSMS		151.2	152.3		632				
SSMS		152.3	152.7		633				
SSMS		152.7	153.3		634				
SSSL		153.3	154.1		635				
ARSL		154.1	154.5		636				
ARSL		154.5	156.1		637				

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 1410 m
HOLE NO. WV96-67	BEARING 215
LOCATION 16895 N 16300 E	DIP -75
	TOTAL LENGTH 142.3
LOGGED BY G. BRADSHAW	HORIZONTAL PROJECT
DATE Oct 1	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE
CORE SIZE NQ	TOTAL SULPHIDE SCALE
DATE STARTED	
DATE COMPLETED Oct 1	
DIP TESTS 124.1 - 215 - -69° 63.1 - -71°	
COMMENTS Massive Sulphides: 102.0 - 102.6 111.3 - 115.2	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0-4.6				CASING							
				DHCS							
4.6-11.6				GREY MASSIVE APHANITIC FELSITE area mainly glassy textured felsite - prop a rhy or rhy + f. abundant micaceous partings throughout unit up to 1mm (muscovite + sericite) limonite staining on surfaces. Trace fine disseminated pyrite along foliation							
				RHES							
11.6-14.2				FAULT/GOUGE ZONE gouged RHES. lots of rusty limonite. some darker argillaceous gouge towards base of unit.							
				STFL							
14.2-23.9				GREY MASSIVE APHANITIC RHYOLITE broken core, glassy texture, green- yellow green sericite partings throughout - fibrous - up to 1cm. Broken core obscures a fairly gradual lower ct.							
				RHMS							
23.9-24.8				LIGHT-DARK GREY INTERBEDDED RHYOLITE - SILICEOUS ARGILLITE. mainly a darker grey rhyolite - "glassy" texture - interstratified sericite partings. It interbedded with a dark grey siliceous argillaceous bands up to 1cm - although usual clusters of mm scale bands							
				RHAR							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
28				Trace fine diss. py.							
28				24.8-41.3 RHMS							
29				same as above - 10.2-23.9							
30				<1% pyrite. fine dissemination, clotted along foliation - coarse euhedral crystals to 5mm locally							
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41				41.3-47.0 EXMT							
42				GREY/BLACK BANDED MAGNETITE IRON FORMATION siliceous rock containing ~ 10-20% massive black magnetite bands up to 8mm typically #3mm. Also very fine disseminated magnetite ss/w/ these bands. Intermingling aphyric siliceous rock up to 50cm in length. As above green-yellow green sericite partings common throughout unit. Local dark green hornblende alteration esp. 45.5-45.9. <1% py+ps as fine para dots + stringers.							
43											
44											
45											
46											
47				47.0-51.4 STFL							
48				FAULTED/GOUGED ARGILLITE - mainly broken-angular black argillite minor chl. spars w/ siliceous fragments in an argillaceous matrix for last 10cm sharp lower contact							
49											
50											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
51				91.4-92.0 STVN WHITE FRACTURED QUARTZ VEIN NUMEROUS FRACTURES CONTAIN ORGILLICEOUS + CLONIC MATERIAL. Gradational into next unit							
52				52.0-52.4 STGG GOUGED-SILICIFIED BLACK ARGILLITE Gouged and brecciated arg. w/ silicified zones - grades into pure gouge 52.3-52.4.							
53				52.4-54.9 RHFT GREY FINE GRAINED RHYOLITE TUFF ab. green-brown sericite on foliation - dominates unit. Fine grained quartz + feldspar tuff.							
54				54.9-59.8 ARST1 BLACK MASSIVE SILICEOUS ARGILLITE. badly broken rote throughout unit - obscures contacts - weakly carbonaceous - fairly soft - siliceous in that contains ~ 10% OCCASIONAL bands of siliceous material (interbedded rhy?) up to 1cm. minor chl. < 1% py as diss. and clots on foln.							
55				59.8-62.3 RHES GREY-GREEN APHANITIC RHYOLITE badly broken up, chloritic (green tinge) aphanitic felsite / rhyolite. Fractured, etc. minor silicification. Tr fine diss. py.							
56				62.3-65.3 STGG GOUGED BLACK ARGILLITE + LOST CORE. argillaceous gouge with some siliceous fragments to 64.0. Lost core (30cm recovered from 64-65.3) and argillite fragments to 65.3.							
57				65.3-75.1 RHES GREY MASSIVE APHANITIC RHYOLITE broken up, very massive grey aphyic rhyolite. Only minor sericite along partings. Some green chl tinge but rote compared to RHES above. Trace fine diss. py.							
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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
74											
75											
76				75.1-74.5 ARCB	BLACK LOCALLY GOUGED CARBONACEOUS ARGILLITE broken up moderately carbonaceous block argillite, minor calcite. Trace fg. foln para. diss pyrite.						
77											
78				(77.9-82.0 - gouge + lost core)							
79											
80											
81											
82											
83				(83.0-83.5 - gouge)							
84											
85				84.5-88.7 ARTE	BLACK/GREY MASSIVE FINE TUFFACEOUS ARGILLITE 20-30% grey felsic tuffaceous component as mm scale bands and lenses also calcite blebs and bands throughout unit local silicified zones w/ irregular bands and patches of quartz. (esp 88.1-88.7) 1-2% py usu as foln para. stringers.						
86											
87											
88											
89				88.7-94.8 ARS1	BLACK LOCALLY GOUGED/SILICIFIED ARGILLITE moderately carbonaceous, calcite blebs bands and fine disseminations throughout (1-2%) - bands to 2mm. pyrite bands to 2mm and fine-scale disseminations throughout. - often ass/w/ calcite. (91.6-92.0 - gouged arg + qv.) (92.8-93.0 - gouged arg + qv.)						
90											
91											
92											
93											
94					94.7-94.8 - 10 cm of pyrite-sphalerite massive sulphide - fine diss py with unv crude bands of v. fg. diss sph.						
95				94.8-95.2 STGG	GOUGED/FAULTED ARGILLITE - minor calcite						
96											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
95.2-102.0				BLACK MASSIVE SILICEOUS ARGILLITE ARS1 calcite blebs + bands (~5%) - up to 2mm moderately siliceous weakly carbonaceous minor late calcite veining minor tuffaceous component as occasional siliceous bands and lenses, 1-2% pyrite as clots and bands ass/w/ calcite + fine coarse disseminations also ass/w/ calcite. Occasional silka patches contain ab. coarse pyrite.							
102.0-102.6				PYRITE-SPHALERITE MASSIVE SULPHIDES SSMS >95% sulphides 5-8% sph. 88-90% pyrite. sharp irregular upper and lower contacts. <1% cpy clotted near lct. see over →							
102.6-111.3				BLACK MASSIVE SILICEOUS ARGILLITE ARS1 same as 95.2-102.0 above, 2-3% py but no visible sphalerite. 111.1-111.3 30% coarse euhedral pyrite within siliceous bands + fine wavy dissp. py. (interstitial black arg. bands) - sharp irregular lower contact. see over → for detailed description.							
111.3-115.2				PYRITE-SPHALERITE MASSIVE SULPHIDES SSMS sharp irregular upper and lower contacts over entire interval - 95% sulphides 5% amount of siliceous clasts quartz veins and calcite 80-85% pyrite 10-15% sphalerite and <1% cpy.							
115.2-122.3				SEMI MASSIVE-STRINGER POLYMETALLIC SULPHIDES / CALCAREOUS RHYOLITE TYPE SSSM - complex unit which is likely a fine rhyolite tuff - ab. sericite and calcite calcite throughout as clasts to 2-3 mm and patchy stringers. (CO ₂ alteration?) "blackchloite" speckled throughout with 2-3 mm. (chloite alteration esp.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		96.8	98.6	1.8	175594				
		98.6	100.2	1.6	175595				
		100.2	102.0	1.8	175596				
MASSIVE SULPHIDES - very fine massive py w/ <5% interstitial siliceous gangue		102.0	102.6	0.6	175597				
102.00-102.05 - sphalerite rich near upper ct -		102.6	103.9	1.3	175598				
35% sph, 5% cpy sph occurs as v. fg crude wavy red brown bands up to 5mm cpy is as irregular fg. clots.		103.9	108.2	4.3	175599				
102.05-102.55 - 95% sx 90-95% v. fg. py 3-5% sph as discontinuous diss red-brn bands to 5mm - trace cpy.									
102.55-102.6 - 90% sx 45% py 40% sph 5% cpy. fine red brnd. sph as above									
very bottom - discont. 4mm cpy band.		108.2	109.7	1.5	175600				
		109.7	111.3	1.6	175638				
MASSIVE SULPHIDES - ~5% gangue mineral.		111.3	112.4	1.1	175639				
111.3-112.4 - grt patch w/ tr. galena at upper ct, tr cpy stringers. v. fg. mass py w/ slightly coarser py filling irregular fractures. 112.3 - irregular 2cm quartz interval 55% sx 84% py. Tr. gn cpy sph. 15% gangue is q.v.s. calcite + silica.		112.4	113.4	1.0	175640				
112.4-113.4 - anastomosing slightly coarser py. stringers. Form a clastic texture. 95% sx - all pyrite.		113.4	114.1	0.7	175641				
113.4-114.1 - 95% sx, 87-90% py, 5-7% sph <1% cpy. slightly coarser py - occasional crude sph bands up to 2mm - sph is usu finely disseminated with coarser py.		114.1	115.2	1.1	175642				
		115.2	115.5	0.3	175643				
		115.5	116.5	1.0	175644				
		116.5	117.2	0.7	175645				
114.1-115.2 - ZINC RICH MASSIVE SULPHIDES 95% sx 55% py 70% sph <1% cpy py is very fine matrix w/ coarser diss. py xls. Occasional distinct sph bands up to 2cm.		117.2	118.0	0.8	175646				
		118.0	118.9	0.9	175647				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
				towards top of unit. see mineralization description.								
120												
121												
122				121.55-121.7 - qtz vein with large clotted cpy inclusions + stringers.								
123												
124				122.3-122.7 WHITE QUARTZ VEIN - gouged at base - contains minor cc and 1-2% cpy stringers.								
125				122.7-123.2 BLACK MASSIVE SILICEOUS ARGILLITE - SOA ARS1 110.6-111.3 - calcite bands, <1% pyrite.								
126				123.2-124.7 FAULT/GOUGE ZONE - gouged up argillite STFL lost core.								
127				124.7-131.0 GREY FINE GRAINED SERICITIC RHYOLITE TUFF RHST chlorite alteration also towards top of unit - soft dark green bands to ~5 mm - these gradually decrease - brown to yellow-green sericite along foliation throughout unit (~30%) - up to 1 cm but generally 2-3 mm. minor calcite otherwise fine grained grey Qtz - feldspar								
128												
129												
130												
131				131.0-131.5 WHITE QUARTZ VEIN OTVN inclusions of carbonaceous argillite trace sphalerite.								
132												
133				131.5-137.3 GREY CALCAREOUS FINE GRAINED SERICITIC RHYOLITE TUFF. RHST abundant calcite as light grey - whit. diss. throughout unit - heavily sericite altered sericite "bands" up to 7 cm locally. Generally mm scale along partings trace fine diss. pyrite.								
134												
135												
136												
137				137.3-139.5 BLACK MASSIVE ARGILLITE ARMS - minor ferriferous component (~10%) as thin mm scale bands. sharp upper and lower contacts. 1% py								
138												
139				139.5-142.3 FAULT/GOUGE ZONE STGG badly gouged black carb. argillite - trace diss. py. (Ag).								
140												
141												
142				142.3 - EOH								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
115.3 - 117.0 - massive ch... 30% py		115.3	117.0	1.7	135550				
117.0 - 118.5 - ...		117.0	118.5	1.5	135551				
118.5 - 120.0 - ...		118.5	120.0	1.5	135552				
120.0 - 121.8 - ...		120.0	121.8	1.8	135553				
121.8 - 122.3 - ...		121.8	122.3	0.5	135554				
122.3 - 124.0 - ...		122.3	124.0	1.7	135555				
124.0 - 125.5 - ...		124.0	125.5	1.5	135556				
125.5 - 127.0 - ...		125.5	127.0	1.5	135557				
127.0 - 128.5 - ...		127.0	128.5	1.5	135558				
128.5 - 130.4 - ...		128.5	130.4	1.9	135559				END

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 590
HOLE NO. WV95-58	BEARING 335
LOCATION DIX = 4 1400E 5950	DIP -85
	TOTAL LENGTH 177.7
LOGGED BY G. BRADY	HORIZONTAL PROJECT
DATE SEPT 30	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE UG	
DATE STARTED SEPT 27	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED SEP 30	
DIP TESTS 61.0 - 73.5 121.9 - 70.0 178.0 - 67.0	LEGEND
COMMENTS Massive sulphides 48.6 - 45.0 m 155.8 - 161.9 m WV96-70 70.0 - 74.0 m WV96-71 70.0 - 74.0 m 162.0 - 167.0 m	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0-14.0				CASING							
14.0-28.0				OVERBURDEN							
28.0-33.8				GREY MASSIVE INTERFACED AMPHIBOLIC FELSITE RHFS							
33.8-35.9				FAULT ZONE							
35.9-47.9				GREY MASSIVE INTERFACED AMPHIBOLIC FELSITE RHFS							
47.9-58.0				BLACK GREY INTERFACED AMPHIBOLIC FELSITE RS							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
57				- Very broken up, fine grained, silty - weakly micaceous, argillaceous.							
58				- locally silty, silty clay with trou zones - fine sand - calcareous material. Silty - silty and calcareous clay to 10 cm.							
59				- Silty clay with throughout as disseminations - clots along fin.							
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SSC-84.4
2-MK

GREY, coarse grained, micaceous
fine grained, silty clay with
trou zones - fine sand - calcareous
material. Silty - silty and calcareous
clay to 10 cm.

< 1% calcareous - micaceous disseminations

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
23				broken							
25											
26				75.3 - 75.8							
27											
28											
29											
30											
31											
32											
33											
34											
35				844-87.1 ARSI	BLACK SILICEOUS thickens						
36				87.1-91.5 RHT	GREY/GREEN open						
37				91.5-93.6 ARSI						
38				93.6-95.0 RHT						
39				95.0-96.0 ARSI						

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
97				250-99.9 STFB Lithologically variable fault breccia ground up by for first 20 cm 10 cm of fine sand 20 cm of rounded pebbles of 35% Qz & 2% feldspar brachiopods fragments up to 2 cm finer non-c. matrix. Ag. in fragments from 99.9-99.9. Tr. diss. pyrite.							
99.9-102.8				99.9-102.8 ARSL black/grey banded siliceous argillite mostly broken core. slip from SE into and about 25% Qz. fine discontinuous. some small fragments of pyrite. some in fragments. some small fragments of pyrite.							
102.8-111.3				102.8-111.3 RHTT REV MASSIVE FINE GRAINED RHYOLITE Tuff texture massive. some small fragments of pyrite. some fine. some small fragments of pyrite on fragments. not abundant. Trace diss. pyrite. some broken core. pyrite. some small fragments of pyrite.							
111.3-116.8				111.3-116.8 ARSL BLACK/GREY SILICEOUS CARBONACEOUS ARGILLITE mostly broken core. moderately carbonaceous throughout. small 5% poorly defined siliceous bands and lenses. 2% of clotted texture.							
116.8-128.9				116.8-128.9 STFL black/grey siliceous argillite mostly broken core. some small fragments of pyrite.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
143			B	142.6-144.6 PYRITE PHALERITE MASSIVE SULPHIDE SSMS sharp upper contact @ 55° sharp lower - trace of intergranular massive - 100% massive sulphide intergranular - 200-300 µm 2 mm - trace of 100 µm for detailed description.							
145			66	145.5-150.8 BLACK MASSIVE ARSENIC ARSENITE ARS massive hard arsenite small mm scale coarse grained. Occasional inclusions of pyrite - 70% pyrite - 30% arsenite bands up to 2mm trace sph massive fine grained - continuous band (147)							
150			66	150.8-154.2 BROKEN-BOUGED BLACK CARBONACEOUS ARSENITE STGG ranges from fine grained broken arsenite arsenite fragments. Interstitial massive arsenite trace sph white - 53.3% arsenite							
154			66	154.2-155.8 BLACK MASSIVE CARBONACEOUS ARSENITE ARCB broken pyrite - same as at 150.8-154.2 - continuous arsenite.							
155			66	155.8-156.3 PYRITE PHALERITE MASSIVE SULPHIDE SSMS massive - banded py-sph - 85% granular - 100% pyrite - 100% massive							
156			66	156.3-156.6 FAULTED BOUNDED BLACK CARBONACEOUS ARSENITE STFL faulted blk arsenite - 2-2% - massive py - 100% solid - 100% arsenite - irregular							
164			67	156.6-164.7 PYRITE PHALERITE MASSIVE SULPHIDE SSMS >90% pyrite - arsenite - 100% pyrite continuous - 100% massive - 100% pyrite - 100% massive upper - 100% pyrite - 100% massive - 100% pyrite - 100% massive							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
MASSIVE SULPHIDES:									
143.6 - 143.6 : 25% ss 30% pu 45% sph		143.6	143.6	0.0	175567				
143.6 - 143.6 : 25% ss 30% pu 45% sph		143.6	143.6	0.0	175568				
144.3 - 144.3 : 25% ss 30% pu 45% sph		144.3	144.3	0.0	175569				
145.3 - 146.6 : 90% ss 30% pu 10% sph		145.3	146.6	1.3	175570				
145.3 - 146.6 : 90% ss 30% pu 10% sph		145.3	146.6	1.3	175571				
148.7 - 148.7 : 25% ss 30% pu 45% sph		148.7	148.7	0.0	175572				
150.8 - 150.8 : 25% ss 30% pu 45% sph		150.8	150.8	0.0	175573				
150.8 - 154.2 : 25% ss 30% pu 45% sph		150.8	154.2	3.4	175574				
155.1 - 155.1 : 25% ss 30% pu 45% sph		155.1	155.1	0.0	175575				
155.1 - 155.1 : 25% ss 30% pu 45% sph		155.1	155.1	0.0	175576				
155.1 - 157.4 : 25% ss 30% pu 45% sph		155.1	157.4	2.3	175577				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175578				
MASSIVE SULPHIDES:									
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175579				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175580				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175581				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175582				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175583				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175584				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175585				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175586				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175587				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175588				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175589				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175590				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175591				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175592				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175593				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175594				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175595				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175596				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175597				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175598				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175599				
156.14 - 156.14 : 25% ss 30% pu 45% sph		156.14	156.14	0.0	175600				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
164.7-167.4				GREY/GREEN SKROWN FINE GRAINED SERICITIC PHYLITE TYPE RHCT mineral assemblage of quartz, sericite, chlorite, calcite, epidote, albite, and hematite. (see mineralization description 7)								
167.4-176.2				GREY FINE GRAINED SERICITIC PHYLITE TYPE RHST In part, sericite + quartz + calcite with abundant sericite from fracture at submm intervals. Gradual upper contact - phylites are with dark green chlorite mineral assemblage to 158.4. 1/2% of fine grained epidote + sericite nodules. Fe sph 1mm oval at 173.4. (170.8-172.5) sericite + quartz + calcite + epidote + albite + hematite. Gradual contact with phylite - quartz at contact. (173.2-173.4) quartz + calcite + epidote + sericite. 1-2% of fine grained epidote + quartz.)								
176.2-177.2				ARC 176.2-177.2 177.2 sph								

Table with columns: MINERALIZATION DESCRIPTION, TOTAL SULPHIDES, SAMPLES (FROM, TO, WIDTH), SAMPLE NUMBER, ASSAYS.

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 5110
HOLE NO. D176-59	BEARING 283
LOCATION 17110 N 16350 E	DIP 10
	TOTAL LENGTH 213' - 378.87m
LOGGED BY G. BRADSHAW / A. TOENER	HORIZONTAL PROJECT
DATE OCT 4 1996 - Oct 10 1996	VERTICAL PROJECT
CONTRACTOR BOISVENIM	ALTERATION SCALE
CORE SIZE 5	TOTAL SULPHIDE SCALE
DATE STARTED Sept. 29 / 96	
DATE COMPLETED October 10 / 96	
DIP TESTS SPOT - 212 :	
COMMENTS <ul style="list-style-type: none"> - intersected the pyro. zone at 364.5' @ 373.0 - 373.5m - intersected main MS zone at 364.5' @ 367.9 - 371.5m (3.6m AT) @ 365.2' to calcite py zone in HW (362.7 - 366.2m) (reported for 362.7 - 366.2m) - very interesting results by the way about 500' in HW (363.4m - 358.5m) 	LEGEND <ul style="list-style-type: none"> - sericite (lime) - chlorite (dk. green) - carbonate (blue) - MT-FcFn (purple) - Sulphides (red) - Zircon (ZrFS) (grey) - Argillite

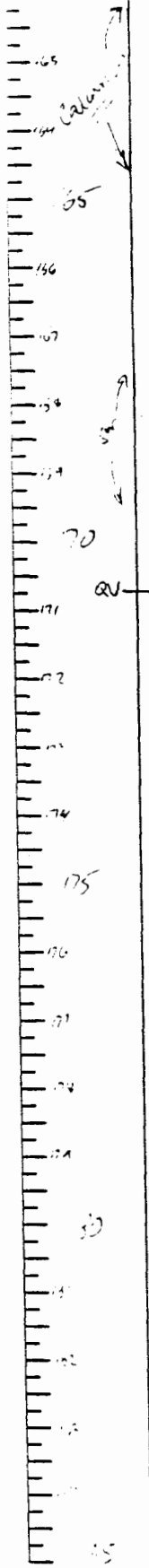
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0-1.5				SHALE							
				DHCS							
1.5-2.5				GREEN/BLACK TUFFESIS - RE-... - ...							
				ARTF							
2.5-3.8				GREEN FINE GRAINED MASS - ...							
				ADTT							
3.8-6.3				GREEN FINE GRAINED MASS - ...							
				ADTF							
6.3-13.9				GREEN MASSIVE ...							
				ADTT							
13.9-14.5				WHITE (CALCITE?) ...							
				(CUM)							
14.5-57.7				GREEN MASSIVE ...							
				ADTT							
19.2-22.5				...							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
52				ADTT (cont)	ANDESITE TUFF							
53												
54												
55												
56												
57												
58				57.7-58.3 ARTE	GREY/BROWN/GREEN DIFFERENTIAL ARGILLITE Brownish argillite - fine? mm scale siliceous color siliceous throughout.							
59				58.3-60.9 ADTT	GREEN MASSIVE FINE GRAINED ANDESITE TUFF SANDY OR RUBBY							
60												
61				60.9-62.0 TES	GREY/BROWN BANDED LAPILLI TUFF intermittent calcite siliceous lens shaped lapilli up to 1-2 cm.							
62				62.0-63.7 ARTE	BLACK/GREY BANDED DIFFERENTIAL ARGILLITE well banded arg. w/ ~50% buff argillite component as required 5mm-10mm bands (ophanitic siliceous wd.)							
63				63.7-70.4 ARWK	BLACK/GREY MASSIVE INTERBEDDED ARGILLITE AND FINE GRAINED GREY GREYWACKE argillite w/ laterally restricted bands of darker arg. - over 20-30 cm. down to 30-40 cm. occasional thin cross siliceous bands. (argillite) (argillite) (argillite) over 20 cm. down to 30-40 cm. argillite over 20 cm. down to 30-40 cm.							
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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
95.0-96.3		ARTF		BLACK GREEN TUFFED TUFF - RHYOLITE UPPER TUFF - GREEN TUFF - RHYOLITE - RHYOLITE TUFF - RHYOLITE - RHYOLITE TUFF - RHYOLITE - RHYOLITE TUFF - RHYOLITE							
96.3-103.0		TDF		GREEN/IRON BANDED TUFF - IRON BANDED TUFF - IRON BANDED TUFF - IRON BANDED TUFF - IRON BANDED TUFF							
103.0-106.6		ART		GREEN TUFF - RHYOLITE AND ANDESITE TUFF - RHYOLITE TUFF - RHYOLITE TUFF - RHYOLITE TUFF - RHYOLITE TUFF							
106.6-114.0m		ARTF		ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE							
114.0m to 115.0m		ARTF (RHYOLITE)		DARK GRAY ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE ARTF - BLACK TUFFED RHYOLITE							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
138				Small, less regular fragments of fine fragments (2-5 cm) in matrix (<10%), and zones of fine fragments to greater amounts of matrix.							
143.1m to 145.7m				RHAT - PALE GREENISH-GREY, SERICITIC, MATTY-POR, FRAGMENTAL APHERIC PH. - <10% v. fine sericite, thin <1mm particles (matrix) sericite (large fragments <5mm) pale greenish-grey, fr. grd., aphanitic texture giving an overall irregular banded appearance - to this pt.							
145.7m to 155.4m				RHER (RHAL) - DARK GREEN, ARGILLACEOUS, FRAGMENTAL APHERIC PH. - as above 136.4 - 143.1m - variable fragment size and matrix content - upper contact is disordered and obscured by QTN. - Nois throughout.							
155.4m to 156.45m				QTN - MASSIVE BULL WHITE QTN.							
156.45m to 159.8m				RHAT - PALE GREENISH GREY, SERICITIC, MATTY-POR, FRAGMENTAL APHERIC PH. - as above 143.1 - 145.7m.							
159.8m to 165.4m				RHAL - PALE - DARK GREY - SUGARY CALCAREOUS FRAGMENTAL ARGILLACEOUS APHERIC PH. (small).							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
162												
165				<ul style="list-style-type: none"> very silty matrix (other) PHAL - RHEE indicates thin bands are common thin bands contain abundant irregular calcite inclusions all in an extremely porous matrix in situ calcite 								
165.4m to 167.2m				RHEE - VERY THINLY BANNED - LAMINAR EARLY STAGE MICELLACOUS EARLY STAGE PHENOLITE TUFF (?) thin silty matrix - 2mm, alternating with calcite inclusions (mostly calcite)								
167.2m to 170.6m				RHAT - EARLY STAGE - GREY SERICITIC MATRIX - POOR FRAGMENTAL APHERIC PH - as above (165.4m - 167.2m)								
170.6m to 173.7m				RHEE - VERY THINLY BANNED - LAMINAR EARLY STAGE MICELLACOUS, EARLY APHERIC PHENOLITE TUFF (?) - as above (165.4m - 167.2m)								
173.7m to 178.1m				RHAT - GREY, SH - GREY, THINLY BANNED SERICITIC, APHERIC PHENOLITE - less of a fragmented texture more simple - thin banded - 0.5-1.5 cm bands of pale green - gray, fine grained, sericite rhy. w 1-2mm sericite (sericite and calcite) matrix - calcite (~10-20%) - in this zone throughout								
178.1m to 181.5m												
181.5m to 184.9m												
184.9m to 188.3m												
188.3m to 191.7m												
191.7m to 195.1m												
195.1m to 198.5m												
198.5m to 201.9m												
201.9m to 205.3m												
205.3m to 208.7m												
208.7m to 212.1m												
212.1m to 215.5m												
215.5m to 218.9m												
218.9m to 222.3m												
222.3m to 225.7m												
225.7m to 229.1m												
229.1m to 232.5m												
232.5m to 235.9m												
235.9m to 239.3m												
239.3m to 242.7m												
242.7m to 246.1m												
246.1m to 249.5m												
249.5m to 252.9m												
252.9m to 256.3m												
256.3m to 259.7m												
259.7m to 263.1m												
263.1m to 266.5m												
266.5m to 270.0m												



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
204				mineral alteration - 10-20% Fe oxide							
207.6m				EXMT MT-SILICA MT-SILICA FeFm.							
209.6m				up to 60-70% ~0.5-1mm black MT xls (and siliceous grains of same - numerous) as thin (1-2cm) bands in an amorphous siliceous, friable rock							
212.2m				10-20% light grey-white, sugary carbonate (mass 0.5-1.5cm) + minor chlorite							
212.2m				MT-SILICA + CARB EXHALITE							
212.2m				siliceous in a MT+CARB - pow chlorite with exhalite below							
212.2m to 213.1m				RHAT - STGG FAULTED AND GOUNDED							
213.1m				PALE ARGILLACEOUS GREY, SERICITIC, THINLY BEDDED (some preserved), APHERIC RHYOLITE							
213.1m				ARGILLACEOUS - STGG FAULTED + GOUNDED							
215.9m				EARLY GREEN - BLACK, ARGILLITE (w/ GRAPHITE)							
215.9m				RHAT - STGG FAULTED AND GOUNDED (TO RUPBY) PALE GREENISH-GREY SERICITIC, THINLY BEDDED, APHERIC RHYOLITE.							
215.9m				~1cm very friable, aphanitic thin bands separated by 1-2m thicker siliceous sericite partings.							
215.9m				4.6% of same as above (212.2m-213.1m)							
215.9m				ARSI (ALBY) - BLACK THINLY BEDDED - LAMINATED, SILICEOUS ARGILLITE AND LOOSER LIGHT GREEN APHERIC RHYOLITE INTERBANDS.							
215.9m				same as 19.1m - 205.7m							

chalk

Gouge

Rubby core

MI

MI

MI

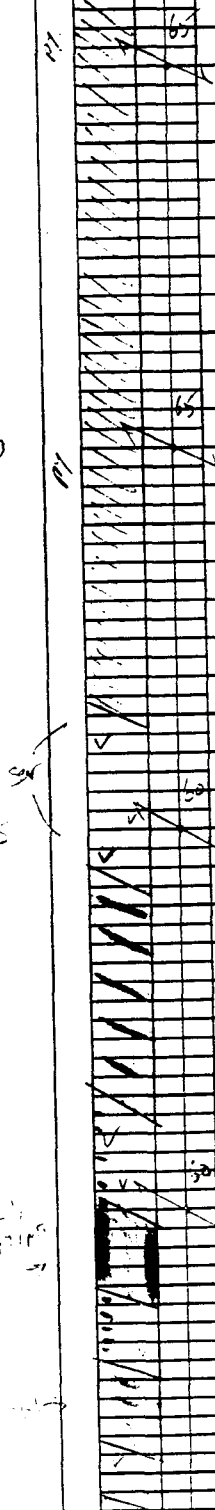
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
231											
232											
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243.5m RHAT / RHFS - GREY, THINLY BANDOED
 ↳ 245.7m SEDIMENTIC, APHYCTIC PHENOLITE
 - as above 215.9m - 225.5m, not filled.
 - 1-2m bands of green to light greenish -
 grey matrix, some phylloitic
 bands 1-2m dark green sericite
 (local?) partings.
 - tr. dis. py.

245.7m EXMT - MT-RICH, MT-SILICA-CARB. Form.
 ↳ 248.6m - disseminated + semi-massive Form.
 MT up to 60%, inc. light green, Form.
 Silica / Carbonate matrix (70:30),
 thin, banded (1cm-2cm), tr. 1% py.

248.6m ZHFS (1/2 minor EX CARB (-MT)), GREY,
 ↳ 250.0m THINLY BANDOED, APHYCTIC FELSITE
 - 1-2m bands of green, phyllo v. Form. rhy.
 - tr. dis. py. minor ser., minor carb. layers.

250.0m EXCP(?) - GREY BANDOED, CARBONATE-
 ↳ 251.2m DURITE EXHALITE + 10-20% dis. MT.
 - 1cm. to 10cm. green, banded, succosa.
 carbonate (1/2 siliceous material) to
 25% dis. py + 5-10% dis. MT (locally).



PAGE

OF

PROJECT:

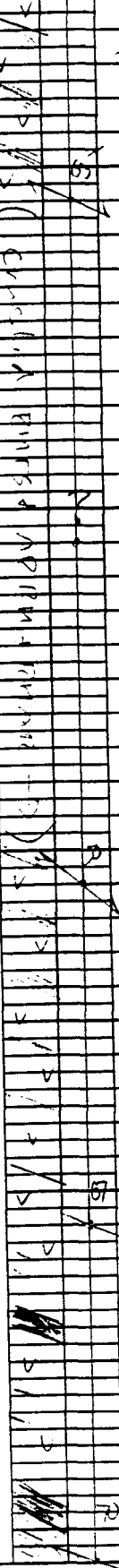
HOLE NO.

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		237.7	238.4		172490				
		237.4	240.5		172491				
		240.5	243.5		172492				
		243.5	244.5		172493				
		247.5	248.2		172494				
		245.7	247.0		172495				
		247.5	248.5		172496				
		248.5	250.0		172497				
		250.0	251.2		172498				
		251.2	253.2		172499				
		253.2	253.9		172500				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
251.2m				251.2m - 252.1m 251.2m - 252.1m 251.2m - 252.1m							
252.1m				252.1m - 253.2m 252.1m - 253.2m 252.1m - 253.2m							
253.2m				253.2m - 253.9m 253.2m - 253.9m 253.2m - 253.9m							
253.9m				253.9m - 257.1m 253.9m - 257.1m 253.9m - 257.1m							
257.1m				257.1m - 258.3m 257.1m - 258.3m 257.1m - 258.3m							
258.3m				258.3m - 260.3m 258.3m - 260.3m 258.3m - 260.3m							
260.3m				260.3m - 260.9m 260.3m - 260.9m 260.3m - 260.9m							
260.9m				260.9m - 267.6m 260.9m - 267.6m 260.9m - 267.6m							
267.6m				267.6m - 268.6m 267.6m - 268.6m 267.6m - 268.6m							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
267.5m				ADSI - BLACK, THINLY BANDED							
↳ 269.7m				ADSI - DARKENED TO BLACK? THINLY BANDED ↳ thin, dark siliceous argillite - minor graphite partings - 20-30% 268-269.7m - fr. ds. m.							
269.7m				RHAT - GREY + GREENISH GREY, BANDED, SERRATED ARGILLIC RHYOLITE							
↳ 277.4m				1-3cm silty grey + greenish grey. Fract. siliceous ch. bands in argillite matrix to 2m depth - fr. ds. m.							
277.4m				RHAR - INTERBANDED DARK GREY ARGILLACIOUS RHYOLITE AND MICELLITE (50cm last core).							
↳ 294.25m				- dark grey 1-3cm fr. arg. siliceous ch. bands in argillite matrix to 2m depth - fr. ds. m. - thin siliceous 30% rel. between 289.7-294.25m - 2, 30-40% dark grey siliceous micellite contains laminae @ 290.7-291.0m, 293.2-293.4m							
294.25m				ADSI - GREY TO DARK GREY THINLY BANDED, SILICEOUS ARGILLITE							
↳ 306.5m				- grey to dark grey thin (<1cm) bands / laminae, possibly more like laminated ADSI (?). - fr. ds. m. - numerous thin qtz's - ch. in direction							
294.25m				RHIF - MASSIVE LIGHT GREY MICELLITE - minor calcareous							
↳ 298.35m				- massive, tabular light grey, fr. argillite - 2 minor dark grey, siliceous ch. bands @ 297.0-297.65, 298.0-298.35m							

300
275
250
225
200
175
150
125
100
75
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25




DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
300				306.5m AR GR - BLACK - THINLY BANDED - to 310.3m LAM'D. METAMORPHIC MARG. w/ QU'S + quartz GROUTED - Faulted + Gouged, black fringed laminated Graphitic Argillite - 1-2% des py. - w/ small QU'S.							
305				310.3m ARTE - GRAY - BLACK, TURFACIOUS to 311.7m ARGILLITE - 10-30% stringer like to lapilli of lighter grey rhyolite network in a darker argillaceous network - 1-2% des py.							
310				311.7m ARSI - BLACK, LAMINATED, PYRITIC, to 313.0m SILICEOUS ARGILLITE - Black, lam'd argillite, hard - siliceous, +/- Graphite - - 2-3% des py + trsph.							
315				313.0m SSSM - SEMI MASSIVE PY/SPH. to 313.5m - thinly laminated py + sph (up to 50% py, 50% sph w/ minor silica. and ~30% thin argillite laminas. = Sulphida + Argillite ↳ fine grained, spotty py to lam.							
320				313.3m ARMS - BLACK LAMINATED to 319.9m ARGILLITE +/- GRAPHITE w/ ABUNDANT QU'S - 'normal' black argillite, +/- graph. laminated, gouged (317-319.9m) w/ abundant QU'S (313.3m-315.0m) + 3-4% spotty des crs. py. + minor <u>ser.</u> alt'n.							
325				RHCV 319.9m (RHFS) - MASSIVE TO BANDED TO to 325.1m MOTTLED GRAY, APHICRIC RHY - massive grey, fine gr. aphanic (possible microlytes throughout). - minor sericite + pyrite inter bands + darker grey spher network yields a nodular texture - minor carbonate?							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
323											
324											
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335.1m RHA(?) - as above, RHC G
 to 338.9m greener as with content + i.
 darker grey color.
 - same method "Fragant"
 texture + microclasts
 - 2-3% ds py.

338.9m RHC - MOTTLLED TO FRAGMENTAL
 to 339.7m GREY CHERTY RHYOLITE
 w. CARBONATE INTER BANDS
 - as above (339.9m to 335.1m)
 3-5% ds py.
 - Strain matls, texture, silica-py.
 carb. rock (?)

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
346											
347											
348											
349											
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351											
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357											
358											
359	ARSI			358.5m ARSI - BLACK-LAMINATED SILICEOUS to 359.75m ARGILLITE							
360	ARHP			- black, laminated to thin bedded at base, fr. grad., hard, sil's argil. - 1-2% ds py - gradational contact to ARSBI below.							
361	ARSB			359.75m ARSB - GRAY + DARK GRAY, THINLY to 361.6m BANDING, ARGILLACEOUS RHY AND ARGILLITE.							
362	BRCP			- 50-60% - 1-3cm, dark grey, fr. grad., aphent, argillaceous phylite bands to 40-50%, thin ~ 1cm, fr. grad. argillite/ sil's arg. interbands. grading into + back into ARSI. dr ds py.							
363	ARSB										
364	STGB										
365	ARSB			361.6m ARSI - BLACK-LAMINATION, SILICEOUS to 362.2m ARGILLITE							
366	ARSB			- as above (358.5m to 359.75m)							
367	SSMS										
368											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
				371.3 - 371.5m. SEMI MASSIVE SULPHIDE - 20-25% coarse blebs or bands of white carbonate & dark green chlorite \bar{u} 50-60% coarse blobby banded py & Fe. grd. banded by \bar{u} 15-20% banded purple sphalerite & 5-5% blobby qtz.							
				371.5m SSG / Ser ALT'D ARMS - STRINGER 6 372.4m MINERALIZED SERICITE ALT'D THINLY BANDED ARGILLITE - Thinly banded - laminated, pale green + gray, sericite altered, argillite \bar{u} 5-10% py/qtz as blobby spots - QV @ 171.6-171.75 - \bar{u} 40% py/qtz - 3-5% qtz throughout, & sph.							
				372.4m who carries its Argillite + its to 378.87m below the zone! - local Faults, moderately to Faces, thinly banded, bedded, minor QV's = Faults. + minor calcareous beds - Amphibole - 2-3% ds & shgy py.							
				12413' LDI 							

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 1400m
HOLE NO. WV96-70	BEARING GS.
LOCATION 16850 N 16400 E	DIP -75
	TOTAL LENGTH 139.3 m
LOGGED BY G. BRADSHAW	HORIZONTAL PROJECT
DATE Oct 3	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE
CORE SIZE NQ	
DATE STARTED Oct 2	TOTAL SULPHIDE SCALE
DATE COMPLETED	
DIP TESTS 45.7m - 70° 76.2m → ¹⁸⁹ - 70° 30.5 ¹⁸⁸ - 73° 137.2m → ¹⁹³ - 70.5	
COMMENTS	LEGEND
massive sulphides - 89.3 - 103.3 Top x = 16396.7 = 14m y = 16824.0 z = 1314.7 Base x = 16395.9 y = 16819.7 z = 1301.4 avg core angle ≈ 70° True thickness = 14 · sin 70° =	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
0-9.4				CASING DHCS								
9.4-13.0				GREY MASSIVE APHANITIC FELSITE/RHYOLITE broken up, siliceous, glassy textured rhyolite. abundant yellow green sericite along foliation. (also lighter muscovite) limonite on fractures and surfaces. lower contact sharp - obscured by broken core.								
13.0-18.0				BLACK MASSIVE CARBONACEOUS ARGILLITE moderately carbonaceous, broken core significant siliceous component, as indistinct bands to 1cm. broken core obscures sharp lower contact.								
18.0-22.0				INTERBEDDED BLACK SILICEOUS ARGILLITE AND GREY APHANITIC RHYOLITE broken up mixture of RHFS above and a siliceous argillite (below). ~30% hard argillite and 70% aphanitic felsite/rhyolite. trace fg. diss. py on foliation.								
22.0-25.3				BLACK MASSIVE SILICEOUS ARGILLITE 5% tuffaceous component as siliceous bands to 1cm. 1-2% pyrite as foln para. stringers and clots along foln.								
25.3-26.5				GREY MASSIVE APHANITIC FELSITE/RHYOLITE. same as felsite/phy in RHAR above.								
26.5-26.7				FAULT/GOUGE ZONE - clay like gouged argillaceous material.								
26.7-31.1				BLACK MASSIVE SILICEOUS (TUFFACEOUS) ARGILLITE mainly hard black siliceous argillite - sig. tuffaceous component as dark grey siliceous bands to 2-3cm. 1-2% pyrite foln. para. stringers and clots along foln.								

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
31.1-42.1		RHES		GREY MASSIVE-TUFFACEOUS RHYOLITE broken core throughout unit - grey siliceous rock texture ranges from aphyric glassy looking to fine grained. tuffaceous abundant yellow-green - green sericite and foliation mm scale bands. Trace diss. pyrite fine clots on foliation planes. minor chl.							
42.1-44.6		EXMT		GREY/BLACK/GREEN BANDED MAGNETITE IRON FORMATION - mainly siliceous rock with local green tinged chloritic intervals up to ~10 cm black thin (up to x4 mm) massive magnetite bands + minor fine diss. mt. (25% mt. overall) trace fine diss. py.							
44.6-45.5		RHMS		GREY MASSIVE APHANITIC RHYOLITE - silica exhalite? glassy texture - same texture as EXMT w/o mt. Occasional qm. mm scale sericitic partings							
45.5-47.9		ARCB		BLACK MASSIVE CARBONACEOUS ARGILLITE moderately siliceous near top - decreases downward. Trace diss fine grained pyrite.							
47.9-49.4		STGG		FAULT/GOUGE ZONE - heavily gouged black carbonaceous argillite							
49.4-51.9		EXMT		GREY/GREEN BANDED MAGNETITE POOR IRON FORMATION - mainly siliceous with abundant chlorite and occasional 1-3 mm epid. grains and bands. siliceous exhalite(?) bands to low blk magnetite occurs occasionally as clusters of 1-5 mm bands.							
51.9-55.7		ARTP		BLACK/GREY MASSIVE TUFFACEOUS ARGILLITE varies from black arg w 1-3 mm black siliceous bands to fragmental textured thin							

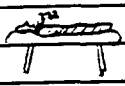
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
55				(53.9-54.1 - smashed up a.u.) (58.8-53.7 fragmental argillaceous rhyolite)							
56				55.7-56.0 FAULT / GOUGE ZONE STEL rounded black argillite ~ 1% py clots on foln.							
57				56.0-57.8 GREY/GREEN FINE GRAINED RHYOLITE LAPILLI RINF TUFF - dark grey - green (minor chl) tuff ab. brown mm scale sericite bands min calcite. occasional lens shapes may have been lapilli.							
58				57.8-61.6 BLACK/GREY MASSIVE TUFFACEOUS ARGILLITE ARTE mainly black moderately siliceous arg w/ frequent mm scale siliceous bands occasional very siliceous intervals 1/2 pyrite as clots - bands to 3-4 mm.							
59				61.6-65.9 BLACK CARBONACEOUS ARGILLITE ARB broken core mostly moderately - strongly carbon- aceous blk arg w/ occasional intervals of siliceous argillite / tuffaceous arg. (62.2-62.7 - rounded carb. argillite) (63.2-63.7 - rhyolitic arg with min calcite)							
60											
61											
62											
63											
64											
65											
66				65.9-70.9 GREY/BUFF BANDED RHYOLITE ASH TUFF RHAL well banded tuff with occasional calcite bands to 2 cm. Banding spaced at 1-10 mm - composed of very fine siliceous mt (ash tuff) and green-brown sericite partings. (67.4-67.5: mt bands up to 3mm clustered over 8 cm) Fairly steep lower contact							
67											
68											
69											
70											
71				70.9-73.8 DARK GREY MASSIVE APHANITIC RHYOLITE RHMS dark grey, glassy textured rhyolite with occasional green/brown mm scale sericite partings - very massive < 1% fine diss. pyrite throughout.							
72											
73											
74				73.8-77.8 GREY/BLACK CARBONACEOUS ARGILLITE RBAR INTERBEDDED WITH APHANITIC RHYOLITE broken core - appears to be intimately interbedded black siliceous argillite and grey massive rhy. Frequent brownish green sericite bands along foln. < 1% diss py irregularly banded f.g. pyrite.							
75											
76											
77											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
78	80			77.8-80.4 ARCB BLACK MASSIVE CARBONACEOUS ARGILLITE. gradual upper contact as siliceous material decreases leaving massive strongly carbonaceous argillite < 1% fig. pyrite clots along folm. increasingly broken & rounded core toward lower contact.							
80				80.4-89.3 STGG FAULT/GOUGE ZONE well gouged carbonaceous argillite over entire interval. some angular fragments. Only trace siliceous component. sharp lower contact with ~15 cm of more buffaceous gouge.							
89				89.3-89.9 SSMS PYRITE-SPHALERITE MASSIVE SULPHIDES ~70% sulphides w/ minor calcite fragments and sillontite stringers. Rare atz lenses							
91				89.9-93.6 STFL FAULT/GOUGE ZONE mainly carbonaceous - graphitic argillite w/ ~10% buffaceous component. ~20% angular pyrite + av. w/ some cpy. See mineralization description →							
93				93.6-103.3 SSMS PYRITE-SPHALERITE MASSIVE SULPHIDES sharp faulted upper contact, >90% sulphides over entire interval 70-75% massive fig. pyrite = 15-20% banded - stringer like v. fig. sphalente. 2-3% fig. diss cpy clots. Gangue is siliceous argillite bands + stringers. rounded mm scale silica blebs + stringers. local calcite veins and stringers. very sharp lower contact at 65° (fault) see mineralization description for detail.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS		
		FROM	TO	WIDTH				
		77.8	79.0	1.2	175657			
		79.0	81.1	2.1	175658			
		81.1	82.5	1.4	175659			
		82.5	84.4	1.9	175660			
		84.4	86.0	1.6	175661			
		86.0	87.5	1.5	175662			
		87.5	89.3	1.8	175663			
MASSIVE SULPHIDES - 70% sulphides 40% f.g. diss pyrite, 30% v.f.g. diss- stringer (1mm) sph. Interstitial cc. grains		89.3	89.9	0.6	175664			
FAULTZONE - 90.2-91.4 - only 30cm recovery but 80% gouged pyrite.		89.9	91.7	1.8	175665			
91.7-91.8 - faulted arg. w/ 3-5% cpy.		91.7	93.6	1.9	175666			
91.8-93.3 - gouged intact core w/ 4-5% well defined angular pyrite fragments in an argillite matrix (upto 15mm)								
93.3 - 5cm qv w/ cpy stringers.		93.6	94.7	1.1	175667			
93.4-93.6 - broken up massive sulphide w/ 70% py and ~ 3% fine diss sph.		94.7	96.0	1.3	175668			
MASSIVE SULPHIDES								
93.6-96.0 - net/mesh textured massive sulphider - interstitial 1-2mm siliceous		96.0	96.6	0.6	175669			
round "bubbles" 60-65% massive f.g. pyrite ~ 20% red-brown banded (upto 1cm)		96.6	97.5	0.9	175670			
to stringer schalente often with ass/ diss. slightly coarser pyrite. 2-3% cpy f.g. clots.		97.5	98.6	1.1	175671			
96.0-96.6 - 85% sx. 75% pyrite		98.6	99.3	0.7	175672			
~ 5-7% diss f.a. sph and 3-5%		99.3	100.6	1.3	175673			



DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
101											
102											
103				103.3-104.4 ARCB BLACK MASSIVE CARBONACEOUS ARGILLITE moderately - strongly carbonaceous black argillite - minor calcite, <1% fine-coarse diss. pyrite.							
104				104.4-105.6 RHCT GREY/GREEN CHLORITIC RHYOLITE TUFF 4 cm. qv at upper 1/4, very chlorite altered 2-1% fohn para. py strgs. minor silicification. fine grained							
105				105.6-106.5 ARSI BLACK MASSIVE SILICEOUS ARGILLITE argillite w/ ~10% visible siliceous component. moderately - strongly carbon- aceous							
106				106.5-109.7 STFL FAULT ZONE - faulted and broken mixture of argillite and chloritic rhyolite tuff. low core angle. 109.8 - end - intact, but (109.6-109.8 - quartz vein) brecciated - contorted argillaceous tuff.							
107				110.7-131.9 RHRS GREY FINEGRAINED SERICITIC RHYOLITE LAPILLI TUFF - minor chl bands towards top of unit to 1 cm. Heavily sericite altered throughout unit. minor mm scale calcite bands. siliceous "lapilli" range in size from 2-5 mm. Occasional qtz veining. <1% diss-banded fine py except see below.							
108				115.5-115.7 - semi massive pyrite + qtz and minor calcite coarse crystalline py + qtz and finer clots - ~50% py over 20cm. 18000 kPa compressive strength orthogonal to fohn plane. 115.8-115.9 - 3-4% pyrite - coarse clots. also <1% fine fohn para. pb. (lapilli - may be feldspar phenos)							
109											
110											
111											
112											
113											
114											
115											
116											
117											
118											
119											
120											
121											
122											
123											

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
clotted-stringer like-cpy. Distinct fragmental texture w/ angular f.g. py fragments up to 1cm swim in a matrix of f.g. py.		100.6	101.4	0.8	175674				
96.6-97.5 - FAULT? Broken-angled mass. sx. ~70% sx, mainly pyrite w/ some arg. 2-3% chalcopyrite + tr. sph.		101.4	102.6	1.2	175675				
97.5-102.4 - FVMS 79% sx with 80% py + ~10% sph in occasional bands to 7mm and patchy disseminations - rare irregular cpy clots.		102.6	103.3	0.7	175676				
102.4-103.3 - spms. 95% sx, 55-60% py 35-40% sph. 2-3% cpy.		103.3	104.4	1.1	175677				
- 1 lb pyrite fine grained stringers		104.4	105.6	1.2	175678				
		105.6	106.5	0.9	175679				
		106.5	108.2	1.7	175682				
		108.2	110.7	2.5	175683				
		110.7	112.9	2.2	175684				
		112.9	115.5	2.6	175685				
		115.5	116.0	0.5	175686				
		116.0	118.6	2.6	175687				
		118.6	121.5	2.9	175688				
		121.5	124.3	2.8	175689				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
134											
135											
136											
137											
138											
139											
130											
131				130.9-130.4	BLACK MASSIVE SILICEOUS ARGILLITE						
132				ARSI	MINOR CALCITE 1-2 mm bands, small 2-3 cm qv + minor gouge at upper ct.						
133				132.4-139.3	DARK GREY FINE GRAINED SERICITIC RHYOLITE						
134				RHSR	LAPILLI TUFF						
135					mm scale calcite bands throughout (~5%)						
136					very well foliated + altered to sericite.						
137											
138					(139.0 - minor gouged core)						
139					139.3 - EDH						
140											
141											
142											
143											
144											
145											

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLVERINE	GROUND ELEV. 1430m
HOLE NO. WV96-71	BEARING GN.
LOCATION 17025N 16250E	DIP -86
	TOTAL LENGTH 257.3
LOGGED BY G. BRADSHAW	HORIZONTAL PROJECT
DATE Oct 3	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE NQ	
DATE STARTED OCT 2	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED OCT 7	
DIP TESTS 71.9 -87 acid test SS → 63.1 - 000 - -88 124.0 267 - -89 184.5 - 197.0 - -85	
COMMENTS Massive sulphides 211.2 - 213.2 211.2 - x = 16247.5 y = 17024.6 z = 1219.1 213.2 - x = 16247.4 y = 17024.4 z = 1217.2	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
0				0-39.0 CASING							
55				DHCS							
56				290-56.1 LOST CORE							
56				DHLC							
57				56.1-56.7 GREY FINE GRAINED RHYOLITE TUFF							
57				RHLC grey broken up felsic rock with considerable micaceous component along foliation. minor Qtz remaining.							
58				56.7-58.5 FAULT BRECCIA ZONE - intact breccia w/ angular lith like siliceous and dark grey sandy groundmass. Much of this ground mass is magnetite.							
59				STFB							
60				58.2-63.1 GREY MASSIVE APHANITIC FELSITE / RHYOLITE							
61				RHFS broken core, mainly glassy textured aphanitic rhyolite w/ minor green sericite along foliation. weakly chloritic locally. occasional very fine white crystals (feldspar?)							
62											
63											
64				63.1-66.9 GRAY/BLACK SILICEOUS BANDED MAGNETITE-IRON FORMATION. much of unit is badly broken up. 63.1-63.6 ground up magnetite + chlorite + Qtz.							
65											
66				65.0-65.2 - dotted fine-med gr. pyrite							
67				Rock is mainly aphanitic siliceous cherty exhalite? localized zones of banded-stringer - disseminated mt. Bands mt. 1cm. locally green chloritic tinge.							
68											
69				66.9-84.4 GREY MASSIVE APHANITIC FELSITE / RHYOLITE							
70				RHFS same as 58.2-63.1, localized diss. banded mt at 79.0. minor chl.							
71											
72											
73											
74											
75											
76											
77											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
78		✓									
79		✓	SP								
80		✓									
81		✓									
82		✓									
83		✓									
84		✓		84.4-85.7 ARSI	BLACK MASSIVE SILICEOUS ARGILLITE unit is mainly broken up core. intact sections show mm scale siliceous + calcite bands. weakly carbonaceous chlorite on fractures. <1% pyrite, e.g. clotted on foln.						
85		✓									
86		✓									
87		✓									
88		✓									
89		✓									
90		✓	bc								
91		✓									
92		✓									
93		✓									
94		✓									
95		✓		95.7-96.6 DHLC	LOST CORE						
96		✓									
97		✓	SP	96.6-102.1 RHAR	INTERBEDDED GREY APHANITIC RHYOLITE AND BLACK MASSIVE ARGILLITE ~40% rhy. glassy textured dark brown micaceous partings 1-2 mm, 60% black locally siliceous argillite with green chlorite on fractures. Tr fine disc. pyrite.						
98		✓									
99		✓									
100		✓									

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
170				Local more massive glossy textured sections.							
171				170.3-171.9 ARSI BLACK MASSIVE SILICEOUS ARGILLITE - hard, siliceous 1-5 mm bands within the argillite < 1% pyrite as foln // stringers.							
172				171.9-175.8 RHMS GREY MASSIVE APHANTIC RHYOLITE gradational upper contact w/ ARSI mm scale dark grey bands (sericitic) through- out // to foln. (many contain fg. py) otherwise glassy textured massive silica. minor calcite blobs < 1% fg. foln para py. (174.0 - subangular hydrite + quartz pebbles)							
176				175.8-181.3 ARSI BLACK MASSIVE SILICEOUS ARGILLITE fairly sharp upper contact, very massive, very siliceous (visible as indistinct bands and light grey patches throughout) some folding of siliceous (tuffaceous) mtl.							
177				2cm { → C.A.							
178				~ 1% fine d. pyrite.							
181				181.3-182.2 RHFS GREY SILICEOUS APHANTIC RHYOLITE/FELSITE grey brown very siliceous unit w/ gradual contact fi. d. pyrite, minor brown sercite.							
182				182.2-184.8 ARSI BLACK MASSIVE SILICEOUS ARGILLITE same as 175.8-181.3 above.							
185				184.8-207.3 RHCV GREY MASSIVE BANDED CHERT RHYOLITE gradual upper contact - siliceous chert (hydrite?) with frequent sub mm v.e.g green bands (sercite?) locally developed semi fragmental texture (jagard anast- omosing iridescent matrix). Frequent 1-2mm foln // calcite bands - esp towards base of unit. ~ 1% pyrite fine glass usu foln //. 195.3-198.4 - looks especially cherty pure silica + xtalite) gradational lower contact w/ EXCP - based on texture and appearance of pyrite							
186											
187											
188											
189											
190											
191											
192											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
193				Amount of calcite seems to steadily increase downhole - may be a silica-calcite exhalative unit - equivalent to EXCP but w/ no pyrite.							
194				(massive chert - close to 20,000 kPa compressive strength)							
195											
196											
197											
198											
199											
200											
201											
202											
203											
204											
205											
206											
207				207.3-210.8 EXCP GREY CALCITE-PYRITE EXHALITE mainly sugary white massive-banded calcite with occasional darker grey siliceous bands up to 1cm. ~10% pyrite overall as medium-coarse medium-banded internals up to 6cm wide.							
208											
209											
210				210.8-211.2 ARS1 BLACK BANDED SILICEOUS ARGILLITE - ab mm scale siliceous bands, minor blebs, 2-3% pyrites							
211				211.2-211.6 SSMS PYRITE SPHALERITE MASSIVE SULPHIDES sharp upper contact, bc. @ lower ct. ~90% sulphides, 70% py, 20% sph. \rightarrow over \rightarrow							
212				211.6-213.2 SSSM CHALCOPYRITE RICH SEMI-MASSIVE SULPHIDES fine grained quartzo-feldspathic matrix containing minor streaky-banded fa. diss. pyrite Gobs of fg. chalcopyrite + unit overall 15% cop, 10% py, 5% blk chl.							
213											
214											
215											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
216	50	SS	48	213.2-215.2 RHCT GREY CHLORITIC FOOTWALL STRINGER ZONE fine grained arg siliceous matrix (ground-mass) may be a fine felsic tuff. Upper 1.1 m dominated by coarse grained black-dark green chlorite in addition to minor green chlorite stringers. Black chl becomes finer and diss. toward base. Base of unit dominated by soft green chloritic bands - brown micaceous (ser bit) bands up to 1 cm but mainly clusters of sub mm bands. 3-4% opy clots, tr py + sph disseminations.							
217		SS									
218		SS									
219	5	SS									
220		SS									
221	6	SS									
222		SS	48	215.2-216.9 RHST GREY CALCAREOUS SERICITIC RHYOLITE TUFF. probably was a rhy tuff but now just calcite (CO ₂ atm?) bands + patches with frequent pale gm. sericite bands up to 4 mm. stars. 1-2% fg d. - crudely brodd py. <1% sub mm sph							
223		SS									
224		SS									
225		SS		216.9-218.9 RHFS GREY MASSIVE APHANITIC FELSITE/RHYOLITE breccia/low angle u. ct. glassy textured rhy with minor cc blebs siliceous, yellow brown sericite bands - sub mm. 1% d. py.							
226		SS									
227	70	SS		218.9-220.9 ARS1 GREY/BLACK BANDED SILICEOUS ARGILLITE filled w. mm scale alternating arg. + siliceous bands. Glassy siliceous lenses. Occ 1-2 mm cc blebs							
228		SS									
229		SS		220.9-223.6 RHTT GREY FINE GRAINED RHYOLITE TUFF grainy texture well foliated tiny smashed white grains (felds?) minor cc, foln para py stars - 1% (2235 - av w chl + py)							
230		SS									
231		SS		223.6-226.7 ARS1 BLACK/GREY SILICEOUS-TUFFACEOUS ARGILLITE local intervals of v. fg. grey calcite surrounding irregular arg frags. Gen. hard sic arg w/ fragment grey tuffaceous bands + lenses.							
232		SS									
233		SS		226.7-239.0 STGG FAULT/GOUGE ZONE - black ground-bitten tuffaceous - massive arg w/ min quartz veining Tr fine diss. pyrite.							
234		SS									
235		SS									
236		SS									
237		SS									
238		SS									

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
		215.2	216.9	1.7	172465				
		216.9	218.9	2.0	172466				
		218.9	220.9	2.0	172467				
		220.9	223.6	2.7	172468				
		223.6	226.7	3.1	172469				
		226.7	229.7	3.0	172470				
		229.7	238.0	8.3	172471				
		238.0	239.6	1.0	172472				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.		
					A	B	C	D	E				
239				239.0-241.2 ARMS	BLACK MASSIVE ARGILLITE - pure black massive moderately siliceous argillite with occasional <1mm calcite bands <1% pyrite, clots on fract + foln.								
240													
241	65			241.2-247.1 FDPH	GREY/WHITE FELDSPAR PORPHYRY 10-15% white -light grey distinct rectangular - sub rounded coarse grained (up to 1cm) feldspar phenocrysts. Very fine grained tuffaceous groundmass with occasional calcite bands and patches frequent sub mm brown-green sericite bands // to foln. Sericite alteration intensity increases towards l.ct. rock becomes soft and contains ab yellow green bands. Minor quartz remaining. ~1% foh // pyrite as fg. bands + stringers								
242													
243				(same feld. ph. creamy chlorite-red.)									
244													
245													
246													
247				247.1-253.1 RXT	DARK GREY ARGILLACEOUS QUARTZ EYE BEARING RHYOLITE CRYSTAL TUFF grey tuffaceous rock with 5% blue quartz eyes. Dark grey colour suggests argillaceous component but appears to be a tuffaceous rock sharp lower contact. Prominent sericite alteration but only up to ~250.3 m. Trace pyrite								
248													
249													
250													
251													
252													
253	65			253.1-255.0 ARTE	GREY TUFFACEOUS ARGILLITE - grey arg. arg w/ frequent mm scale light grey tuff bands minor calcite blebs/bands. Gouge + contorted bedding @ l.ct.								
254													
255				255.0-257.3 STGS	FAULT/GOUGE ZONE - gouged up black argillite with minor (5-10%) tuffaceous component.								
256													
257				257.3 - EOH									
258													
259													
260													
261													

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT WOLLERIE	GROUND ELEV. 1398 m
HOLE NO. W195-72	BEARING 215 (GS)
LOCATION 16350 E 16862 N	DIP -50
	TOTAL LENGTH 134.7
LOGGED BY G. BRADSHAW	HORIZONTAL PROJECT
DATE OCT 7/96	VERTICAL PROJECT
CONTRACTOR CARON	ALTERATION SCALE <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE NQ	
DATE STARTED OCT 5	TOTAL SULPHIDE SCALE <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED OCT 7	
DIP TESTS 76.2 - 191 - 52 134.7 - 193 - 52.5	LEGEND
COMMENTS MASSIVE SULPHIDES 91.7-96.1, 104.3-107.3 4.4 3.0 107.3 x - 16341.7 91.7 x 16343.7 y - 16795.8 y 16805.1 z - 1314.2 z 1326.6 96.1 x - 16343.1 y - 16802.5 z - 1323.1	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
29				RHS (cont.)							
30											
31											
32											
33											
34											
35											
36											
37	75			36.7-42.0 EXMT GREY/BLACK BANDED MAGNETITE IRON FORMATION very siliceous (cherty) exhalative type unit mainly white siliceous aphanitic rock with frequent mm scale brown sericite partings. Occasional green chlorite altn halo. Occasional clusters of black well defined magnetite bands up to 1cm. ≈ 15% mt overall. yellow brown sericite bands fragment towards base of unit. ≈ 1% py as fg clots along fractures.							
38											
39											
40											
41											
42				42.0-47.6 ARCB BLACK MASSIVE CARBONACEOUS ARGILLITE - broken core throughout, massive arg, moderately carbonaceous, siliceous towards base - bands and lenses of felsic mt. gradational lower contact w/ next unit. - trace fg. pyrite on foln + fracture. ^ disseminated. - much of unit approaches fault zone.							
43											
44											
45											
46											
47				47.6-50.7 RHST GREEN/GREY FINE SERICITIC RHYOLITE TUFF greenish very sericitic fg. tuff 47.8-49.0 - massive green chlorite interval with irregular siliceous clots and trace magnetite. ≈ 1% Smpar. diss py throughout							
48											
49											
50											
51											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
52				50.7-53.9 ARCB BLACK MASSIVE CARBONACEOUS ARGILLITE mm scale folded siliceous bands near upper ct broken up moderately carbonaceous arg until 1. ct. sharp but obscured by b.c. 1% fine diss. py on fractures.								
53												
54				53.9-54.8 RHFS GREY MASSIVE APHANTIK FELSITE/RHYOLITE b.c. sericite partings, tr. chl. sharp l. ct.								
55												
56				54.8-60.2 ARSI BLACK MASSIVE SILICEOUS ARGILLITE broken up, lost core. (56.3 - subrounded siliceous arg pebbles) (56.4-56.5 - gouged core) minor Qtz veining - mm scale grey indistinct siliceous bands throughout up to 6mm. minor chl on fractures								
57												
58												
59												
60				60.2-68.6 RHAL GREY-BUFF BANDED RHYOLITE ASH-TUFF. Similar to RHFS. mainly grey aphanitic glassy textured rhyolite but occasional buff colour and a distinct well defined banding suggest this may be a very fine ash tuff. Alternating yellow-green sericite grey/white silica and buff siliceous bands averaging 5-6mm up to several cm. minor chl on fractures. trace pyrite on Edn. Gradational to more argillaceous unit. qv. at lower ct. (4cm).								
61												
62												
63												
64												
65												
66												
67				68.6-83.4 ARSI BLACK MASSIVE SILICEOUS ARGILLITE lots of b.c. local siliceous zones w/ amastomosing argillaceous matrix and ab. fine diss. calcite. otherwise moderately carbonaceous locally argillaceous arg. w/ <1% py on fractures. (78.3 - gouge zone) mm scale siliceous bands towards lower contact. minor calcite debris.								
68												
69												
70												
71												
72												
73												
74												

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
35				ARCB (cont.)								
36												
37												
38												
39												
40												
41												
42												
43				83.4-86.0 STGG	FAULT/GOUGE ZONE. brecciated zone 83.5-83.8 fragments of Qtz arg + py in a finer carbonaceous arg. mtrx. mainly rounded blk arg w/ minor (5%) siliceous comp. and trace diss euhedral py.							
44												
45												
46				86.0-91.7 ARSI	BLACK/WHITE MASSIVE SILICIFIED SILICEOUS ARGILLITE arg. w/ siliceous bands + on a mm scale min folding, occasional calcite rich intervals w/ blebs and stringers. Frequent silicification (late quartz veins) - arg - 6cm qv at 87.5, 4cm qtz + cc vein at 87.7, 88.2-88.3 - wht. qv. 89.3-89.5 - wht qv., 89.8-89.9 - wht qv. 90.3-90.7 - wht qv w/ amillite bands, ~2% py, esp near base of unit as fine-med ar. diss - bands w/ 2mm 90.5-91.7 - 5-10% diss-banded fg py.							
47												
48												
49												
50												
51				36 35 91.7-96.1 SSMS	PYRITE RICH MASSIVE SULPHIDES. sharp irregular upper contact, min clotted cpy. (92.1-92.3 rounded coarse amillite + 10% py) overall 90% sulphides, 85% v.f.g. massive pyrite 5% diss - occasionally banded to 2mm red brown sph <1% cpy clots grain is interstitial round siliceous (clasts, occasional calcite stringers, over)							
52												
53												
54												
55												
56												
57				65 71 96.1-102.7 ARSI	BLACK MASSIVE SILICEOUS ARGILLITE upper contact - 30-40% calcite stringers for 6cm							
58												

**1996 SUMMARY REPORT ON THE
FOOT 1 - 20, 37 - 80, 83 - 94, 180 - 188, 215 - 231,
11A - 12A, KINK 3, LOW 13 - 14**

**8.0 CHEMEX CERTIFICATES
VOLUME ~~8~~ 4**

093590



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

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Assay - Copper, Lead, Zinc

A prepared sample (0.4g) is digested in a hot nitric - hydrochloric acid mixture and taken to dryness, cooled, and then transferred into a 100ml volumetric flask. The final matrix is 25% hydrochloric acid. The solutions are then analyzed on an atomic absorption instrument.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
301	Copper	Cu	0.01%	100%
312	Lead	Pb	0.01%	100%
316	Zinc	Zn	0.01%	100%

Assay - Arsenic and Antimony

A prepared sample (2g) is digested with concentrated nitric acid and potassium chlorate. Hydrochloric acid is added and taken just to dryness. Tartaric acid, hydrochloric and water is added and the sample is transferred to a volumetric flask. Arsenic and antimony are analyzed on an AA against matched matrix standards.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
331	Arsenic	As	0.01%	100%
348	Antimony	Sb	0.01%	100%



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Fire Assay - Gold and Silver

Fire Assay - Gravimetric Finish

Gold analyses are done by standard fire assay techniques. A prepared sample (1 assay ton (29.166 grams)) is fused in litharge, carbonate and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The Ag and Au bead is weighed, parted in dilute nitric acid, annealed and weighed as Au. The difference in weights is the Ag.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
955	Gold - rush	Au	0.07 g/t	1,000 g/t
997	Gold	Au	0.07 g/t	1,000 g/t
473	Silver - rush	Ag	3 g/t	1,000 g/t
384	Silver	Ag	3 g/t	1,000 g/t

Fire Assay - Gold

Atomic Absorption Spectroscopy (FA-AA)

A 30g sample is fused with a neutral lead oxide flux inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead.

These beads are digested for 30 minutes in 0.5ml diluted 75% nitric acid, then 1.5ml of concentrated hydrochloric acid are added and the mixture is digested for 1 hr. The samples are cooled, diluted to a final volume of 5ml, homogenized and analyzed by atomic absorption spectroscopy.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
983	Gold	Au	5 ppb	10,000 ppb
991	Gold - rush	Au	5 ppb	10,000 ppb



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XRF - Barium

X-Ray Fluorescence Spectroscopy (XRF)

At least 2 g of sample is required for this procedure. The finely ground sample powder is mixed with a few drops of liquid binder to an evenly moist consistency. The sample is then compressed under approximately 15 ton / in² onto a backing of boric acid in an aluminum mould to form a disc 40 mm in diameter and 5 mm thick. After pressing, the resultant disc is dried to remove the solvent. The pressed pellet is analyzed by XRF spectrometry.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
912	Barium	Ba	10 ppm	5 %

Assay - Specific Gravity

(On Pulverized Rock)

A 2 gram sample is weighed in air on an analytical balance then weighed in water using S.G. vial (pycnometer). From the difference in weight the volume of water displaced (buoyancy effect) can be determined. From this data the density or weight per unit volume (gm/cc) is calculated.

$$\text{S.G.} = \frac{\text{Density of sample gm/cc}}{\text{Density of water gm/cc}}$$

The accuracy for Specific Gravity (+/- 5%) can be determined from a quartz standard which is used as a check.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
444	Specific Gravity	Sg	0.01%	20%



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Geochemical Procedure - Antimony

Hydrochloric Acid Potassium Chlorate Digestion
Organic Extraction
Atomic Absorption Spectroscopy (AAS)

A prepared sample (2.00g) is digested with concentrated hydrochloric acid and potassium chlorate. The solution is then cooled. Potassium iodide and ascorbic acid are added to reduce iron. Antimony is then extracted using tri-n-octyl phosphine oxide (TOPO) into methyl isobutyl-ketone (MIBK). The antimony is then determined using atomic absorption spectroscopy with correction for background absorption.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
22	Antimony	Sb	0.2 ppm	0.1%

Geochemical Procedure - Mercury

Nitric Aqua Regia Digestion
Atomic Absorption Spectroscopy (AAS)

A prepared sample (1.00g) is digested with concentrated nitric-aqua regia acid for two hours. The digested solution is diluted to volume and homogenized. A portion of the sample is reacted with stannous chloride to reduce the mercury. The resulting mercury vapor is then measured by cold vapour atomic absorption spectroscopy.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
20	Mercury	Hg	10 ppb	0.01%



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24-Element Geochemistry Package (T24)

Inductively-Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

The 24 element rock geochemistry package provides quantitative analysis of all major elements (except silicon) as well as most important trace elements.

A prepared sample (0.50g) is digested with perchloric, nitric and hydrofluoric acids to dryness. The residue is taken up in a volume of 25ml of 10% hydrochloric acid and the resulting solution is analyzed by inductively-coupled plasma atomic emission spectroscopy. Results are corrected for spectral interelement interferences.

Chemex Code	Element	Detection Limit	Upper Limit
285	Digestion		
573	Aluminum	0.01 %	15 %
565	Barium	10 ppm	1 %
575	Beryllium	0.5 ppm	0.01 %
561	Bismuth	2 ppm	1 %
576	Calcium	0.01 %	15 %
562	Cadmium	0.5 ppm	0.05 %
569	Chromium	1 ppm	1 %
563	Cobalt	1 ppm	1 %
577	Copper	1 ppm	1 %
566	Iron	0.01 %	15 %
560	Lead	2 ppm	1 %
570	Magnesium	0.01 %	15 %
568	Manganese	5 ppm	1 %
554	Molybdenum	1 ppm	1 %
564	Nickel	1 ppm	1 %
559	Phosphorus	10 ppm	1 %
584	Potassium	0.01 %	10 %
578	Silver	0.5 ppm	0.02 %
583	Sodium	0.01 %	10 %
582	Strontium	1 ppm	1 %
579	Titanium	0.01 %	10 %
556	Tungsten	10 ppm	1 %
572	Vanadium	1 ppm	1 %
558	Zinc	2 ppm	1 %



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Assay - Mercury

Atomic Absorption Spectroscopy
Aqua Regia - MIBK

A prepared sample (1g) is digested with concentrated nitric acid and potassium chlorate in a 55°C water bath. Hydrochloric acid is added for further digestion. The sample is transferred to a volumetric flask and an aliquot is analyzed by A.A. using the standard flameless technique for mercury, after reduction with stannous chloride.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
344	Mercury	Hg	0.001%	100%

Geochemical Procedure - Arsenic

Nitric-Aqua regia acid digestion
Atomic Absorption Spectroscopy (AAS)

A prepared sample (1.00g) is digested with nitric-aqua regia acids for two hours. The digested sample is cooled and diluted to 25 ml with de-mineralized water. The resulting solution is mixed and the solids allowed to settle. The metals are then determined using atomic absorption spectroscopy. Background correction is applied in the determination of arsenic.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
13	Arsenic	As	2 ppm	1%



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Sample Preparation - Crushing

The entire sample is passed through TM Rhino crusher to yield a crushed product where greater than 60% of the sample passes a -10 mesh screen. A split in the range of 200-250g (weight depends on parameters requested) is then taken using a stainless steel Jones riffle splitter.

Different crushing codes are used depending on the weight of the original sample:

Chemex Code	Sample Weight
226	0 - 3 Kg (Small rock chip samples packed in porous bags only)
294	4 - 7 Kg
276	8 - 12 Kg
273	13 - 18 Kg
270	19 - 26 Kg

Sample Preparation - Ring Grinding

Geochem, Assay & Geochem Ring

A crushed sample split (200 - 300 g) is ground using a ring mill pulverizer with a chrome steel ring set. The Chemex specification for this procedure is that greater than 90% of the ground material passes a 106 micron (Tyler 150 mesh) screen.

Chemex Codes:	205 Geochem samples
	208 Assay samples
	255 Rush Geochem samples
	258 Rush Assay samples



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Geochemical Procedure - 30-Element Geochemistry Package (30-ICP)

Nitric Aqua Regia Digestion

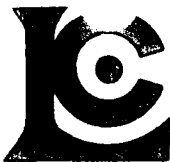
Inductively-Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)

This package was developed to provide a ICP qualitative scan of material with significant mineralization.

A prepared sample (0.4g) is digested with concentrated nitric and aqua regia acids at medium heat for two hours. The acid solution is diluted to 100ml with de-mineralized water, mixed and analyzed using a inductively coupled plasma spectrometer after calibration with proper standards. The analytical results are corrected for spectral inter-element interferences.

<u>Chemex Code</u>		<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
233		Digestion		N/A	N/A
4002	*	Aluminum	Al	0.01%	15%
4001		Silver	Ag	1 ppm	0.01%
4003		Arsenic	As	10 ppm	5%
4004	*	Barium	Ba	20 ppm	20%
4005	*	Beryllium	Be	5 ppm	0.01%
4006		Bismuth	Bi	10 ppm	5%
4007	*	Calcium	Ca	0.01%	30%
4008		Cadmium	Cd	5 ppm	0.01%
4009		Cobalt	Co	5 ppm	5%
4010	*	Chromium	Cr	10 ppm	2%
4011		Copper	Cu	5 ppm	5%
4012		Iron	Fe	0.01%	30%
4013		Mercury	Hg	10 ppm	1%
4014	*	Potassium	K	0.01%	10%
4015	*	Magnesium	Mg	0.01%	30%
4016		Manganese	Mn	10 ppm	5%
4017		Molybdenum	Mo	5 ppm	5%
4018	*	Sodium	Na	0.01%	20%
4019		Nickel	Ni	5 ppm	5%
4020		Phosphorus	P	0.01%	1%
4021		Lead	Pb	5 ppm	5%
4022		Antimony	Sb	10 ppm	1%
4023	*	Scandium	Sc	5 ppm	1%
4024	*	Strontium	Sr	5 ppm	1%
4025	*	Titanium	Ti	0.01%	10%
4026	*	Thallium	Tl	20 ppm	1%
4027		Uranium	U	20 ppm	1%
4028		Vanadium	V	20 ppm	5%
4029	*	Tungsten	W	20 ppm	1%
4030		Zinc	Zn	5 ppm	5%

* Elements for which the digestion is possibly incomplete.



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o: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

A9616332

Comments: ATTN: TERRY TUCKER

CERTIFICATE	A9616332
--------------------	-----------------

(GP) - WESTMIN RESOURCES LTD.

Project: FC
 P.O. #: 6999

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 24-APR-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	9	Geochem ring to approx 150 mesh
226	9	0-3 Kg crush and split
3202	9	Rock - save entire reject
285	9	ICP - HF digestion charge
287	9	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	9	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	9	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	9	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	9	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	9	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	9	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	9	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	9	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	9	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	9	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	9	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	9	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	9	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	9	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	9	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	9	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	9	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	9	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	9	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	9	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	9	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	9	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	9	Pb ppm: 24 element, rock & core	AAS	2	10000
582	9	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	9	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	9	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	9	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	9	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Project: FC
 Comments: ATTN: TERRY TUCKER

Page Number: 1-A
 Total: 1
 Certificate Date: 24-APR-96
 Invoice No.: 19616332
 P.O. Number: 6999
 Account: GP

CERTIFICATE OF ANALYSIS A9616332

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
FC-1	205 226	10	18	2.2	170	< 0.2	0.88	70	< 0.5	< 2	0.28	< 0.5	3	170	194
FC-2	205 226	30	8	2.0	180	0.4	0.70	110	< 0.5	< 2	0.04	< 0.5	< 1	236	25
FC-3	205 226	10	1	1.2	90	< 0.2	0.45	80	< 0.5	< 2	0.01	< 0.5	< 1	184	6
FC-4	205 226	35	1	1.6	620	< 0.2	0.92	120	< 0.5	< 2	0.02	< 0.5	< 1	272	18
FC-5	205 226	20	44	4.0	170	< 0.2	1.03	110	< 0.5	< 2	0.09	< 0.5	4	224	257
FC-6	205 226	15	30	2.4	860	< 0.2	0.71	150	< 0.5	< 2	0.16	< 0.5	3	378	121
FC-7	205 226	15	40	3.6	260	< 0.2	0.76	130	< 0.5	< 2	0.09	< 0.5	1	286	92
FC-8	205 226	30	8	1.6	300	< 0.2	0.78	110	< 0.5	< 2	6.28	< 0.5	1	191	88
FC-9	205 226	15	2	5.0	240	< 0.2	0.71	100	< 0.5	< 2	0.06	< 0.5	< 1	197	9

CERTIFICATION: Hart Bickler



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Project: FC
Comments: ATTN: TERRY TUCKER

Page Number: 1-B
Total Pages: 1
Certificate Date: 24-APR-96
Invoice No.: I9616332
P.O. Number: 6999
Account: GP

CERTIFICATE OF ANALYSIS

A9616332

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
FC-1	205 226	1.38	0.14	0.03	75	7	0.02	21	2400	4	115	< 0.01	16	< 10	82
FC-2	205 226	0.80	0.36	0.04	20	4	0.03	3	380	52	50	0.01	59	< 10	24
FC-3	205 226	0.31	0.19	0.02	10	6	0.01	3	40	4	12	0.01	8	< 10	6
FC-4	205 226	0.39	0.41	0.05	20	1	0.05	3	80	42	30	0.02	39	< 10	22
FC-5	205 226	2.90	0.25	0.04	20	7	0.05	29	2090	14	108	0.01	39	< 10	152
FC-6	205 226	1.85	0.25	0.04	30	7	0.01	11	1570	36	238	0.05	39	< 10	98
FC-7	205 226	1.79	0.30	0.04	25	5	0.02	8	1220	44	147	0.01	50	< 10	50
FC-8	205 226	0.94	0.29	0.04	65	20	0.01	9	>10000	2	386	< 0.01	37	< 10	62
FC-9	205 226	0.61	0.33	0.04	25	6	0.02	4	550	6	23	0.01	26	< 10	32

CERTIFICATION: Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER I 9 6 1 6 7 4 2

BILLING INFORMATION

Date: 1-MAY-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP

Comments:

Billing: For analysis performed on
 Certificate A9616742

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	18.75		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	85.45	683.60
Total Cost \$				683.60
Client Discount (25%) \$				<u>-170.90</u>
Net Cost \$				512.70
(Reg# R100938885) GST \$				<u>35.89</u>
TOTAL PAYABLE (CDN) \$				548.59



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot Q: 1
 Date: 30-APR-96
 Invoice #: 19616742
 P.O. #: 6406
 GP

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

**PLEASE NOTE

QC DATA OF CERTIFICATE A9616742

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRF) %	Spec Gr ppm S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
BOR-93 CHEMEX MEAN	Std1 1	850 871	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
G90-TOT CHEMEX MEAN	Std1 1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	6.71 7.07	780 766	2.0 0.9	8 5	2.15 2.12	1.5 0.9	20 19	135 141
GEO-90 CHEMEX MEAN	Std1 1	----- -----	----- -----	----- -----	----- -----	845 865	----- -----	60 61	7.8 7.7	170 189	2.6 3.0	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 1	----- -----	23.0 22.2	0.83 0.83	0.46 0.45	0.94 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	Std1 1	----- -----	----- -----	----- -----	----- -----	----- -----	2.59 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: Hart Buchler

**INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

QC F 1-B
 Tot C 1
 Date: 30-APR-96
 Invoice #: I9616742
 P.O. #: 6406
 GP

**PLEASE NOTE

QC DATA OF CERTIFICATE **A9616742**

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BOR-93 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	std1 1	227 221	3.89 3.98	1.74 1.76	0.99 1.00	1025 1015	7 7	1.69 1.74	76 76	1090 1120	----- -----	318 320	0.34 0.34	106 103	< 10 < 10	250 246
GEO-90 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	184 195	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Hart Buchler

**INTERFERENCE: Cu on Bi



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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

A9616742

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9616742

(GP) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 30-APR-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	8	RUSH Geo ring to approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
285	8	ICP - HF digestion charge
287	8	special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	8	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	8	Ag g/t: RUSH, aqua regia digest	AAS	0.3	500
301	8	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	8	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	8	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	8	Ba ppm	XRF	10	50000
444	8	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	8	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	8	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	8	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	8	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	8	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	8	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	8	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	8	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	8	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	8	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	8	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	8	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	8	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	8	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	8	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	8	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	8	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	8	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	8	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	8	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	8	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	8	Pb ppm: 24 element, rock & core	AAS	2	10000
582	8	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	8	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	8	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	8	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	8	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

Page: 1-A
 Total: 1
 Certificate Date: 30-APR-96
 Invoice No.: I9616742
 P.O. Number: 6406
 Account: GP

**PLEASE NOTE

CERTIFICATE OF ANALYSIS A9616742

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppm	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH								AAS									
104651	255	295	75	11.0	0.01	0.06	0.30	10860	2.64	74	62	2520	12.0	6.99	1900	2.5	4	0.97	23.5	6	147
104652	255	295	190	12.7	0.02	0.01	0.15	9150	2.65	220	62	740	11.2	3.10	990	3.5	8	5.02	14.0	7	370
104653	255	295	290	67.5	0.02	0.20	0.56	25600	2.69	332	160	3490	54.0	3.23	1630	4.0	10	3.98	52.0	6	345
104654	255	295	90	7.9	0.01	0.02	0.07	13700	2.70	176	50	380	7.6	2.14	1040	2.5	6	10.70	6.0	5	386
104666	255	295	15	13.7	1.30	0.05	1.01	395	2.90	6	6.4	470	12.0	5.52	260	< 0.5	Intf*	3.87	98.5	27	70
104667	255	295	< 5	9.9	0.92	0.04	0.27	575	2.83	2	1.0	220	8.8	5.67	510	< 0.5	Intf*	2.61	26.5	19	90
104668	255	295	< 5	7.2	0.96	0.05	0.26	360	2.86	2	2.4	220	5.8	6.31	350	< 0.5	Intf*	2.28	21.5	24	70
104669	255	295	< 5	2.4	0.11	0.02	0.32	1075	2.79	12	1.2	250	1.2	5.72	980	0.5	< 2	1.56	29.0	14	82

CERTIFICATION:

David S. Miller

**INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page Number: 1-B
Total: 1
Certificate Date: 30-APR-96
Invoice No.: 19616742
P.O. Number: 6406
Account: GP

**PLEASE NOTE

CERTIFICATE OF ANALYSIS A9616742

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
104651	255	295	47	3.31	2.10	0.65	155	7	0.66	25	640	308	51	0.19	226	< 10	2790
104652	255	295	139	2.85	1.20	0.37	475	47	0.03	144	4930	66	133	0.11	705	10	1425
104653	255	295	167	3.14	1.02	0.30	300	58	0.07	163	2510	730	73	0.10	1255	20	5090
104654	255	295	138	2.70	0.66	0.28	1075	14	0.03	88	5650	68	259	0.07	363	10	640
104666	255	295	>10000	12.30	0.17	3.53	1760	< 1	0.09	4	340	400	116	0.13	27	30	8970
104667	255	295	>10000	10.15	0.25	3.31	1355	1	0.30	1	280	264	71	0.13	21	10	2530
104668	255	295	>10000	11.65	0.14	3.63	1360	3	0.25	5	320	380	62	0.15	21	10	2320
104669	255	295	1075	7.51	0.67	3.61	1015	2	0.05	4	260	132	46	0.11	24	< 10	2840

CERTIFICATION:

[Handwritten Signature]

**INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 6 7 4 6

BILLING INFORMATION

Date: 1-MAY-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP

Comments:

Billing: For analysis performed on
Certificate A9616746

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
11	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb Quote	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1356.52

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
	3222 - 5 gal. pail and lid	7.00*		7.00

Total Cost \$	1398.52
Client Discount (25% of \$1391.52) \$	<u>-347.88</u>

Net Cost \$	1050.64
(Reg# R100938885) GST \$	<u>73.54</u>

TOTAL PAYABLE (CDN) \$ 1124.18

* Not Subject to Discount

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

QC F 1-A
 Tot C 1
 Date: 30-APR-96
 Invoice #: 19616746
 P.O. #: 6406
 GP

QC DATA OF CERTIFICATE

A9616746

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSH FA	Ag g/t RUSH FA	Cu %	Pb %	ZnBa %	(XRF)Spec Gr ppm S.G.	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	0.007	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	0.69 0.67	3.59 3.58	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	----	855 865	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.58 0.62	175.0 175.0	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.85 0.83	0.45 0.45	0.97 0.95	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	2.69 2.62	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	4.0 4.3	5.55 5.72	300 285	< 10 < 10	< 20 < 20	3.15 3.50	< 10 < 10	380 364	260 266

CERTIFICATION: Hart Bichler



Chemex Labs Ltd.

Analytical Chemists *Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

QC P: 1-B
Tot Q: 1
Date: 30-APR-96
Invoice #: 19616746
P.O. #: 6406
GP

QC DATA OF CERTIFICATE

A9616746

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1	9580 9440	19.25 19.35	0.8 0.8	2.70 2.70	990 961	< 10 < 10	1.45 1.38	11300 11050	0.006 0.007	230 221	0.30 0.29	110 115	220 191

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

A9616746

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9616746

(GP) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 30-APR-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	11	RUSH Assay ring approx 150 mesh
295	11	RUSH crush and split (0-3 Kg)
3202	11	Rock - save entire reject
290	11	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	11	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	11	Ag g/tonne: RUSH	FA-GRAVIMETRIC	0.3	500.0
301	11	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	11	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	11	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	11	Ba ppm	XRF	10	50000
444	11	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	11	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	11	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	11	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	11	Ag ppm: high grade 24 element	AAS	0.5	200
4031	11	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	11	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	11	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	11	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	11	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	11	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	11	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	11	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	11	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	11	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	11	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	11	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	11	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	11	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	11	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	11	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	11	Pb %: high grade 24 element	AAS	0.001	10.00
4047	11	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	11	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	11	V ppm: A22 ICP package	ICP-AES	10	50000
4050	11	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

Page: 1-A
 Total: 1
 Certificate Date: 30-APR-96
 Invoice No.: 19616746
 P.O. Number: 6406
 Account: GP

CERTIFICATE OF ANALYSIS A9616746

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa %	(XRF)Spec Gr ppm	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH FA						S.G.				AAS									
104655	258	295	1.51	357.0	0.33	2.67	13.20	385	4.58	0.45	0.18	0.003	>200	0.35	200	< 10	< 20	1.40	1180	40	130
104656	258	295	0.89	278.0	0.73	1.72	13.00	445	4.50	0.39	0.04	0.002	>200	0.75	300	< 10	< 20	0.90	1230	40	150
104657	258	295	0.54	271.0	2.75	0.43	8.72	4530	3.55	0.04	< 0.01	0.001	>200	3.80	200	< 10	80	2.00	860	140	150
104658	258	295	0.17	55.0	0.87	0.13	1.73	1215	2.85	0.01	< 0.01	< 0.001	53.0	1.00	1000	< 10	20	0.05	180	30	350
104659	258	295	0.14	31.0	0.88	0.14	6.06	3680	3.11	0.02	< 0.01	< 0.001	30.0	3.95	500	< 10	40	0.05	630	100	190
104660	258	295	0.07	17.0	0.87	0.05	5.43	2660	3.04	0.01	< 0.01	< 0.001	21.0	3.10	1400	< 10	< 20	0.25	600	70	300
104661	258	295	0.27	38.0	1.61	0.21	17.00	2170	3.75	0.08	< 0.01	0.001	39.0	2.30	200	< 10	20	0.20	1840	210	160
104662	258	295	0.07	24.0	0.81	0.11	9.88	4380	3.08	0.03	< 0.01	< 0.001	20.0	4.05	400	< 10	20	0.10	1090	90	250
104663	258	295	0.14	41.0	1.37	0.18	9.13	3480	3.04	0.03	< 0.01	< 0.001	37.0	3.00	1100	< 10	40	0.25	1010	110	230
104664	258	295	0.10	21.0	1.50	0.05	3.02	3780	2.98	0.02	< 0.01	< 0.001	20.0	4.75	1400	< 10	20	0.20	330	50	230
104665	258	295	0.21	38.0	3.20	0.09	2.02	4490	3.11	0.01	< 0.01	< 0.001	39.0	5.70	1100	< 10	80	1.25	210	60	130

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.

P.O. Box 49066, The Bentall Centre
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

Page: 1-B
 Total: 1
 Certificate Date: 30-APR-96
 Invoice No.: 19616746
 P.O. Number: 6406
 Account: GP

CERTIFICATE OF ANALYSIS

A9616746

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
104655	258	295	3150	>30.0	< 0.1	0.05	530	30	< 0.05	50	2.60	50	< 0.05	50	>100000
104656	258	295	7070	>30.0	0.1	0.10	330	40	< 0.05	30	1.680	20	< 0.05	90	>100000
104657	258	295	27200	20.3	1.5	0.45	650	< 10	0.10	40	0.394	50	0.05	290	79200
104658	258	295	8310	4.35	0.3	0.05	30	10	0.05	30	0.123	< 10	< 0.05	340	16860
104659	258	295	8310	10.60	1.4	0.25	60	< 10	0.15	10	0.117	10	0.05	350	56400
104660	258	295	8490	7.00	1.0	0.20	80	< 10	0.25	30	0.041	10	< 0.05	260	51300
104661	258	295	15850	18.95	0.8	0.20	180	< 10	0.05	20	0.183	10	< 0.05	190	>100000
104662	258	295	7840	7.60	1.2	0.20	70	< 10	0.60	30	0.085	20	0.05	470	88300
104663	258	295	13450	7.15	0.9	0.15	90	20	0.05	30	0.164	10	0.05	630	82500
104664	258	295	14400	7.70	1.2	0.25	120	< 10	1.05	10	0.038	20	0.10	80	28500
104665	258	295	31400	11.40	1.3	0.45	500	< 10	1.85	< 10	0.070	50	0.10	80	19240

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V7X 1C4

INVOICE NUMBER I 9 6 1 7 6 2 5

BILLING INFORMATION

Date: 16-MAY-96
 Project: WOLVERINE
 P.O. No.:
 Account: GP

Comments:

Billing: For analysis performed on
 Certificate A9617625

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
7	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	663.74
		Total Cost \$		663.74
		Client Discount (25%) \$		<u>-165.94</u>
		Net Cost \$		497.80
		(Reg# R100938885) GST \$		<u>34.85</u>
		TOTAL PAYABLE (CDN) \$		532.65



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British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9617625

Comments: ATTN:TERRY TUCKER

CERTIFICATE

A9617625

(GP) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-MAY-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	7	RUSH Geo ring to approx 150 mesh
295	7	RUSH crush and split (0-3 Kg)
3202	7	Rock - save entire reject
285	7	ICP - HF digestion charge
287	7	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	7	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	7	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	7	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	7	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	7	Ba ppm	XRF	10	50000
444	7	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	7	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	7	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	7	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	7	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	7	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	7	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	7	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	7	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	7	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	7	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	7	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	7	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	7	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	7	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	7	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	7	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	7	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	7	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	7	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	7	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	7	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	7	Pb ppm: 24 element, rock & core	AAS	2	10000
582	7	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	7	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	7	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	7	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	7	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN:TERRY TUCKER

Page Number: 1-A
 Total: 1
 Certificate Date: 15-MAY-96
 Invoice No.: 19617625
 P.O. Number:
 Account: GP

CERTIFICATE OF ANALYSIS A9617625

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) ppm	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH																	
104670	255	295	10	0.9	0.04	< 0.01	< 0.01	880	2.91	2	1.8	< 10	< 0.2	1.04	160	< 0.5	< 2	2.95	< 0.5	15	156
104671	255	295	90	10.5	< 0.01	0.02	1.39	3790	2.80	164	38	6640	10.0	2.57	290	1.5	8	0.29	66.5	3	214
104672	255	295	1460	229	0.06	0.92	7.04	5940	2.91	660	570	6020	>100.0	1.97	300	2.0	18	0.60	>500	5	356
104673	255	295	315	64.8	0.02	0.13	0.55	7870	2.62	370	155	2240	63.0	2.69	300	3.5	8	0.74	55.5	5	462
104674	255	295	300	56.5	0.04	0.16	0.80	12070	2.58	510	150	4250	54.0	3.31	360	5.5	8	0.88	84.0	6	273
104678	255	295	130	10.7	0.20	0.03	4.92	1570	2.76	108	280	4390	59.0	1.19	160	< 0.5	12	0.47	484	20	229
104679	255	295	200	61.5	0.30	0.01	3.09	4440	2.78	34	160	4300	10.4	5.20	370	1.0	10	0.53	287	17	199

CERTIFICATION: Yhai D Ma



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project : WOLVERINE
 Comments: ATTN:TERRY TUCKER

Page : 1-B
 Total : 1
 Certificate Date: 15-MAY-96
 Invoice No. : 19617625
 P.O. Number :
 Account : GP

CERTIFICATE OF ANALYSIS	A9617625
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SAMPLE	PREP CODE	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104670	255 295	427	13.60	0.31	1.03	740	1	0.04	56	460	< 2	134	0.05	51	30	24
104671	255 295	39	3.62	1.00	0.23	65	29	0.07	57	1070	192	25	0.06	731	30	>10000
104672	255 295	631	9.27	0.80	0.21	100	64	0.04	162	2730	9400	35	0.07	1045	100	>10000
104673	255 295	246	3.05	0.86	0.23	45	56	0.06	169	3420	1260	37	0.09	1005	20	5120
104674	255 295	491	4.32	1.21	0.36	65	78	0.08	201	3440	1360	36	0.11	1725	30	6930
104678	255 295	2040	2.75	0.45	0.16	90	11	0.03	12	550	202	13	0.01	260	60	>10000
104679	255 295	2980	2.27	1.80	0.53	75	3	0.26	7	480	96	32	0.09	98	50	>10000

CERTIFICATION: Yhai D Ma



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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 7 6 2 7

BILLING INFORMATION

Date: 21-MAY-96
Project: WOLVERINE
P.O. No.:
Account: GP

Comments:

Billing: For analysis performed on
Certificate A9617627

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu, Pb, Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb Quote	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	369.96

Additional charges:

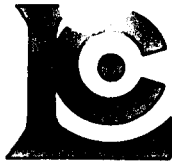
1	265 - Special prep labor charge	35.00		35.00
3	3222 - 5 gal. pail and lid	7.00*		21.00

	Total Cost \$	425.96
	Client Discount (25% of \$404.96) \$	<u>-101.24</u>

	Net Cost \$	324.72
(Reg# R100938885)	GST \$	<u>22.73</u>

TOTAL PAYABLE (CDN) \$ 347.45

* Not Subject to Discount



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 7 6 2 7

BILLING INFORMATION

Date: 21-MAY-96
Project: WOLVERINE
P.O. No.:
Account: GP

Comments:

Billing: For analysis performed on
Certificate A9617627

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb Quote	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	369.96

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
3	3222 - 5 gal. pail and lid	7.00*		21.00

	Total Cost \$	425.96
	Client Discount (25% of \$404.96) \$	<u>-101.24</u>

	Net Cost \$	324.72
(Reg# R100938885)	GST \$	<u>22.73</u>

TOTAL PAYABLE (CDN) \$ 347.45

* Not Subject to Discount

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o: WESTMIN RESOURCES LTD.

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 VANCOUVER, BC
 V7X 1C4

A9617627

Comments: ATTN:TERRY TUCKER

CERTIFICATE

A9617627

(GP) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 20-MAY-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	3	RUSH Assay ring approx 150 mesh
295	3	RUSH crush and split (0-3 Kg)
3202	3	Rock - save entire reject
290	3	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	3	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	3	Ag g/tonne: RUSH	FA-GRAVIMETRIC	0.3	500.0
301	3	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	3	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	3	Ba ppm	XRF	10	50000
444	3	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	3	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	3	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	3	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	3	Ag ppm: high grade 24 element	AAS	0.5	200
4031	3	Al %: A22 ICP package	ICP-AES	0.05	30.0
4033	3	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	3	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	3	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	3	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	3	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	3	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	3	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	3	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	3	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	3	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	3	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	3	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	3	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	3	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	3	Pb %: high grade 24 element	AAS	0.001	10.00
4047	3	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	3	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	3	V ppm: A22 ICP package	ICP-AES	10	50000
4050	3	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

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 V7X 1C4

Page : 1-A
 Total : 1
 Certificate Date: 19-MAY-96
 Invoice No. : I9617627
 P.O. Number :
 Account : GP

Project : WOLVERINE
 Comments: ATTN:TERRY TUCKER

CERTIFICATE OF ANALYSIS A9617627

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa %	(XRFSpec Gr ppm S.G.)	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	
			RUSH	RUSH FA																	
104675	258	295	0.86	192.0	0.47	1.37	13.00	130	4.47	0.23	0.05	0.004	191.0	0.35	< 10	< 20	0.55	1220	70	90	4440
104676	258	295	0.31	106.0	0.91	0.34	6.67	2490	3.25	0.06	0.02	< 0.001	104.0	3.05	< 10	< 20	0.40	640	60	80	8780
104677	258	295	1.30	405.0	0.47	2.34	12.90	545	4.27	0.18	0.05	0.001	>200	0.80	< 10	< 20	1.10	1100	10	50	4580

CERTIFICATION: *Phai D Ma*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN:TERRY TUCKER

Page et :1-B
Total :1
Certificate Date: 19-MAY-96
Invoice No. :19617627
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS

A9617627

SAMPLE	PREP		Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
104675	258	295	>30.0	< 0.1	0.05	390	50	< 0.05	30	1.350	< 10	< 0.05	60	>100000
104676	258	295	14.70	0.9	0.45	170	20	0.05	40	0.316	30	< 0.05	350	58300
104677	258	295	29.0	0.1	0.15	440	60	< 0.05	30	2.32	30	< 0.05	120	>100000

CERTIFICATION: *Thai D Ma*



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PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 8 2 7 6

BILLING INFORMATION

Date: 22-MAY-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9618276

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	331 - As %	12.50		
	348 - Sb %	12.50		
	344 - Hg %	12.50	131.82	527.28

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	569.28
	Client Discount (25% of \$562.28) \$	<u>-140.57</u>

	Net Cost \$	428.71
(Reg# R100938885)	GST \$	<u>30.01</u>

TOTAL PAYABLE (CDN) \$ 458.72

COPY

* Not Subject to Discount



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9618276

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9618276

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-MAY-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	4	RUSH Assay ring approx 150 mesh
295	4	RUSH crush and split (0-3 Kg)
3202	4	Rock - save entire reject
290	4	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	4	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	4	Ag g/tonne: RUSH	FA-GRAVIMETRIC	0.3	500.0
301	4	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	4	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	4	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	4	Ba ppm	XRF	10	50000
444	4	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	4	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	4	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	4	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	4	Ag ppm: high grade 24 element	AAS	0.5	200
4031	4	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	4	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	4	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	4	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	4	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	4	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	4	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	4	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	4	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	4	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	4	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	4	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	4	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	4	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	4	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	4	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	4	Pb %: high grade 24 element	AAS	0.001	10.00
4047	4	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	4	Tl %: A22 ICP package	ICP-AES	0.05	20.0
4049	4	V ppm: A22 ICP package	ICP-AES	10	50000
4050	4	Zn ppm: A22 ICP package	ICP-AES	20	100000



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page # er : 1-A
Total : 1
Certificate Date: 22-MAY-96
Invoice No. : 19618276
P.O. Number :
Account : GP W

PLEASE NOTE

CERTIFICATE OF ANALYSIS A9618276

SAMPLE	PREP		Au g/t	Ag g/t	Cu	Pb	ZnBa	(XRFSpec Gr	As	Sb	Hg	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	
	CODE		RUSH	RUSH FA	%	%	%	ppm S.G.	%	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
104695	258	295	1.27	288.0	0.24	1.77	10.90	295	4.44	0.36	0.13	0.003	>200	0.30	< 100	< 10	< 20	0.80	970	20	120
104696	258	295	1.17	408.0	0.63	3.27	21.2	150	4.37	0.72	0.10	0.004	>200	0.25	< 100	< 10	20	1.20	1830	30	100
104697	258	295	1.27	305.0	3.99	0.64	6.18	7250	3.51	0.01	0.03	0.001	>200	4.65	100	< 10	80	3.15	590	130	90
104698	258	295	0.45	147.0	1.40	0.13	3.90	3100	2.82	< 0.01	0.01	< 0.001	160.0	2.30	200	< 10	40	0.20	380	40	190

CERTIFICATION: Hart Bickler

Ba BY ICP MAY HAVE PRECIPITATED DUE TO THE NATURE OF THE SAMPLE



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page : 1-B
Total : 1
Certificate Date: 22-MAY-96
Invoice No. : I9618276
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

PLEASE NOTE

CERTIFICATE OF ANALYSIS A9618276

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
104695	258	295	2480	>30.0	< 0.1	0.05	440	50	< 0.05	70	1.770	30	< 0.05	90	95000
104696	258	295	6450	27.7	< 0.1	0.05	440	50	< 0.05	40	3.30	40	< 0.05	60	>100000
104697	258	295	40600	20.6	1.9	0.45	700	10	0.10	30	0.634	90	0.05	410	56700
104698	258	295	14390	6.30	0.9	0.15	40	10	0.05	20	0.125	10	< 0.05	460	37200

CERTIFICATION: Hart Bichler

Ba BY ICP MAY HAVE PRECIPITATED DUE TO THE NATURE OF THE SAMPLE



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 1 8 2 7 7**

BILLING INFORMATION

Date: 23-MAY-96
 Project: WOLVERINE
 P.O. No.:
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9618277

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

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 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
22	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	2086.04
		Total Cost \$		2086.04
		Client Discount (25%) \$		<u>-521.51</u>
		Net Cost \$		1564.53
		(Reg# R100938885) GST \$		<u>109.52</u>
		TOTAL PAYABLE (CDN) \$		1674.05



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P : 1-A
 Tot C: 1
 Date: 23-MAY-96
 Invoice #: I9618277
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

QC DATA OF CERTIFICATE A9618277

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
BOR-93 CHEMEX MEAN	Std1 1	880 871																		
G90-TOT CHEMEX MEAN	Std1 1											6.71 7.07	750 766	2.0 0.9	8 5	2.10 2.12	2.5 0.9	18 19	136 141	
GEO-90 CHEMEX MEAN	Std1 1					860 865		68 61	8.4 7.7	200 189	2.6 3.0									
JWB-JV-1 CHEMEX MEAN	Std1 1		22.5 22.2	0.85 0.83	0.45 0.45	0.95 0.95														
SILICA CHEMEX MEAN	Std1 1						2.57 2.62													
104699	Dupl-01 Origl-01	215 230	67.2 67.7	1.71 1.65	0.14 0.14	4.45 4.38	2010 1995	2.86 2.85	92 88	52 51	1840 1870	63.0 62.4	1.32 1.34	180 80	0.5 < 0.5	Intf* Intf*	0.19 0.17	458 465	50 51	133 136

CERTIFICATION: Hart Buchler

*Ba BY ICP MAY HAVE PRECIP. DUE TO THE NATURE OF THE SAMPLE. INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P 1-B
Tot C 1
Date: 23-MAY-96
Invoice #: I9618277
P.O. #: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

QC DATA OF CERTIFICATE

A9618277

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BOR-93 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1 1	233 221	3.83 3.98	1.73 1.76	0.98 1.00	985 1015	6 7	1.77 1.74	74 76	1060 1120	----- -----	314 320	0.34 0.34	101 103	< 10 < 10	280 246
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	196 195	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----
104699	Dupl-01	>10000	6.33	0.50	0.10	55	12	0.05	26	260	1240	13	0.02	393	30	>10000
	Origl-01	>10000	6.49	0.53	0.09	50	12	0.04	28	260	1200	13	0.01	397	30	>10000

CERTIFICATION: Hart Buchler

*Ba BY ICP MAY HAVE PRECIP. DUE TO THE NATURE OF THE SAMPLE. INTERFERENCE: Cu on Bi



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to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9618277

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9618277

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE

P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-MAY-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	22	RUSH Geo ring to approx 150 mesh
295	22	RUSH crush and split (0-3 Kg)
3202	22	Rock - save entire reject
285	22	ICP - HF digestion charge
287	22	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	22	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	22	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	22	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	22	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	22	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	22	Ba ppm	XRF	10	50000
444	22	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	22	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	22	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	22	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	22	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	22	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	22	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	22	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	22	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	22	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	22	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	22	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	22	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	22	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	22	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	22	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	22	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	22	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	22	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	22	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	22	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	22	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	22	Pb ppm: 24 element, rock & core	AAS	2	10000
582	22	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	22	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	22	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	22	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	22	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

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 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total: 1
 Certificate Date: 23-MAY-96
 Invoice No.: I9618277
 P.O. Number:
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9618277

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRF) Spec Gr	As ppm	Sb ppm	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	
	RUSH	RUSH	RUSH	RUSH	%	%	ppm S.G.	ppm	ppm	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
104699	255	295	230	67.7	1.65	0.14	4.38 1995 2.85	88	51	1870	62.4	1.34	80	< 0.5	Intf*	0.17	465	51	136
104700	255	295	60	12.2	0.41	0.05	4.81 3730 2.94	56	15.5	2120	11.0	3.01	520	0.5	12	0.24	500	52	119
104701	255	295	210	50.0	0.70	0.43	11.90 7280 3.71	660	52	2280	46.0	5.59	700	1.0	36	0.49	>500	107	103
104702	255	295	40	8.3	0.34	0.04	3.44 2660 2.78	50	11.0	2310	8.0	2.71	310	< 0.5	6	0.11	341	25	129
104703	255	295	80	11.9	0.43	0.05	7.63 6020 2.98	66	11.0	3440	10.8	5.08	960	0.5	12	0.11	>500	55	129
104704	255	295	190	27.3	0.88	0.16	11.10 8360 3.39	186	38	3020	24.4	6.13	770	1.5	28	0.05	>500	143	98
104705	255	295	< 5	25.4	1.17	0.10	7.49 3540 2.97	96	32	2880	23.6	2.15	190	0.5	Intf*	0.09	>500	85	146
104706	255	295	< 5	2.4	0.07	0.02	0.57 5060 2.88	2	9.8	500	1.6	4.51	860	1.0	4	0.09	56.0	10	105
104707	255	295	145	34.5	1.79	0.11	2.89 6090 2.96	38	15.0	1790	31.6	5.81	970	1.5	Intf*	0.16	307	46	111
104708	255	295	10	14.8	0.64	0.05	0.68 840 2.81	2	3.4	620	13.6	4.91	290	0.5	28	1.64	64.0	16	86
104709	255	295	5	18.2	1.01	0.06	0.76 1175 2.86	4	3.2	780	16.0	6.11	400	1.0	Intf*	2.16	71.5	19	65
104710	255	295	5	5.8	0.37	0.04	0.72 740 2.78	4	1.2	770	4.4	5.39	590	0.5	16	1.70	62.0	12	54
104711	255	295	< 5	0.3	< 0.01	< 0.01	0.03 1160 2.76	12	1.2	10	< 0.2	5.06	910	0.5	8	1.47	0.5	9	68
104712	255	295	< 5	< 0.3	< 0.01	< 0.01	0.02 2120 2.73	16	1.0	20	< 0.2	6.14	1780	1.5	< 2	1.14	< 0.5	6	53
104713	255	295	< 5	< 0.3	< 0.01	< 0.01	0.02 2600 2.73	30	3.2	10	< 0.2	7.50	2270	2.5	< 2	2.29	< 0.5	5	81
104714	255	295	< 5	< 0.3	< 0.01	< 0.01	0.01 2250 2.71	94	5.0	10	< 0.2	5.65	1920	2.0	2	1.59	< 0.5	5	124
104715	255	295	150	< 0.3	< 0.01	< 0.01	0.01 2340 2.74	24	2.4	10	< 0.2	6.64	2020	2.5	< 2	1.15	< 0.5	5	74
104716	255	295	210	21.9	0.04	0.03	0.12 16550 2.68	276	115	870	21.6	3.14	490	4.5	2	2.64	8.5	5	275
104717	255	295	395	93.5	0.06	0.23	1.15 >50000 2.90	356	210	5490	96.0	6.22	690	4.0	< 2	2.16	99.5	6	175
104718	255	295	195	52.2	0.08	0.04	0.26 9370 2.62	264	165	970	51.0	2.43	610	3.5	4	4.31	22.0	5	299
104719	255	295	125	25.5	0.01	0.08	0.96 11580 2.73	118	48	4620	25.0	5.95	680	3.0	6	1.10	100.0	5	133
104720	255	295	25	< 0.3	< 0.01	0.01	0.01 8110 2.71	10	6.8	70	< 0.2	6.81	860	2.5	2	1.64	1.0	5	99

CERTIFICATION: *[Signature]*

*Ba BY ICP MAY HAVE PRECIP. DUE TO THE NATURE OF THE SAMPLE. INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1-B
Total: 1
Certificate Date: 23-MAY-96
Invoice No.: 19618277
P.O. Number:
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9618277

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
104699	255	295	>10000	6.49	0.53	0.09	50	12	0.04	28	260	1200	13	0.01	397	30	>10000
104700	255	295	4110	5.70	1.09	0.17	85	3	0.09	15	490	342	20	0.06	214	40	>10000
104701	255	295	7240	22.1	2.26	0.37	430	6	0.23	48	620	3700	33	0.08	484	80	>10000
104702	255	295	3100	2.94	0.74	0.11	50	< 1	0.08	7	170	256	12	0.03	72	20	>10000
104703	255	295	4200	7.93	1.31	0.26	75	< 1	0.71	8	240	270	24	0.04	165	60	>10000
104704	255	295	9650	16.05	2.30	0.30	80	9	0.27	49	480	1200	21	0.08	538	80	>10000
104705	255	295	>10000	7.79	0.89	0.15	50	19	0.06	36	540	820	10	0.03	743	50	>10000
104706	255	295	590	1.86	1.43	0.30	25	2	0.41	3	250	120	19	0.10	29	< 10	5400
104707	255	295	>10000	9.49	1.52	0.32	55	< 1	1.34	6	600	740	21	0.11	72	< 10	>10000
104708	255	295	6500	9.26	0.33	2.74	1090	1	0.48	< 1	290	380	52	0.12	14	< 10	5790
104709	255	295	>10000	10.95	0.43	3.40	1370	< 1	0.62	3	320	470	74	0.16	16	< 10	6100
104710	255	295	3510	8.35	0.39	3.42	1075	< 1	0.26	< 1	310	400	59	0.12	15	< 10	5990
104711	255	295	44	5.49	0.69	4.22	995	2	0.12	< 1	250	24	42	0.08	17	< 10	270
104712	255	295	25	3.73	1.41	4.64	745	2	0.16	1	250	4	39	0.10	16	< 10	184
104713	255	295	12	3.38	1.97	6.02	875	< 1	0.22	1	300	6	84	0.13	21	< 10	138
104714	255	295	19	2.01	1.94	3.55	495	1	0.14	< 1	260	4	59	0.10	15	< 10	82
104715	255	295	24	2.28	2.34	3.29	425	3	0.19	< 1	310	6	50	0.13	16	< 10	70
104716	255	295	413	3.49	1.06	0.37	255	20	0.07	121	5080	156	82	0.11	521	< 10	1070
104717	255	295	536	3.88	1.33	0.29	180	70	0.17	114	4190	810	107	0.10	885	< 10	>10000
104718	255	295	785	3.14	0.97	0.29	290	27	0.05	149	9720	330	125	0.09	487	< 10	2320
104719	255	295	133	2.75	2.59	0.64	165	14	0.12	35	790	556	72	0.16	267	< 10	7830
104720	255	295	8	1.60	2.87	0.79	320	3	0.64	7	490	32	74	0.18	34	< 10	84

CERTIFICATION: Hart Bichler

*Ba BY ICP MAY HAVE PRECIP. DUE TO THE NATURE OF THE SAMPLE. INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 8 2 7 8

BILLING INFORMATION

Date: 23-MAY-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9618278

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
15	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	522.75
Total Cost \$				522.75
Client Discount (25%) \$				<u>-130.69</u>
Net Cost \$				392.06
(Reg# R100938885) GST \$				<u>27.44</u>
TOTAL PAYABLE (CDN) \$				419.50

COPY



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F : 1-A
 Tot C : 1
 Date: 22-MAY-96
 Invoice #: I9618278
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9618278

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
DV-95 CHEMEX MEAN	std1	1	145 145	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	std1	1	----	----	----	----	----	7.30 7.07	850 766	1.5 0.9	6 5	2.29 2.12	2.0 0.9	21 19	151 141	235 221
GEO-90 CHEMEX MEAN	std1	1	----	62 61	7.8 7.7	190 189	2.8 3.0	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Buchler



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P : 1-B
 Tot C : 1
 Date: 22-MAY-96
 Invoice #: I9618278
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9618278

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
DV-95 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G90-TOT CHEMEX MEAN	Std1	1	4.09 3.98	1.91 1.76	1.07 1.00	1060 1015	6 7	1.97 1.74	75 76	1150 1120	----- -----	345 320	0.36 0.34	107 103	20 < 10	254 246
GEO-90 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	200 195	-----	-----	-----	-----	-----

CERTIFICATION: Hart Buchler



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

TO: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9618278

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9618278

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-MAY-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	15	Geochem ring to approx 150 mesh
226	15	0-3 Kg crush and split
3202	15	Rock - save entire reject
285	15	ICP - HF digestion charge
287	15	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	15	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	15	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	15	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	15	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	15	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	15	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	15	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	15	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	15	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	15	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	15	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	15	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	15	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	15	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	15	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	15	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	15	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	15	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	15	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	15	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	15	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	15	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	15	Pb ppm: 24 element, rock & core	AAS	2	10000
582	15	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	15	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	15	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	15	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	15	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page per : 1-A
Total s : 1
Certificate Date: 22-MAY-96
Invoice No. : 19618278
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9618278

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104680	205 226	30	20	9.4	140	< 0.2	1.93	450	2.0	< 2	0.69	0.5	7	174	128
104681	205 226	5	4	4.4	150	< 0.2	3.54	750	4.0	< 2	1.33	0.5	7	156	103
104682	205 226	10	2	1.6	560	< 0.2	2.84	360	5.5	< 2	1.54	9.0	7	176	65
104683	205 226	< 5	1	1.0	170	< 0.2	1.32	130	4.0	4	17.65	4.5	6	72	36
104684	205 226	10	1	2.0	930	< 0.2	0.90	130	3.5	2	20.6	22.0	6	51	29
104685	205 226	30	2	4.8	8560	0.6	1.39	250	< 0.5	8	10.85	98.0	11	62	71
104686	205 226	< 5	6	8.8	130	0.2	9.28	8350	2.5	2	0.64	1.5	9	52	21
104687	205 226	< 5	1	0.4	50	< 0.2	1.57	110	< 0.5	< 2	2.87	1.5	1	121	19
104688	205 226	40	1	1.0	250	< 0.2	1.60	180	0.5	< 2	0.96	0.5	4	157	56
104689	205 226	10	2	6.0	10	< 0.2	1.51	760	< 0.5	2	2.12	< 0.5	3	181	19
104690	205 226	150	2	0.6	60	< 0.2	2.00	220	< 0.5	< 2	0.68	0.5	2	103	100
104691	205 226	15	20	5.8	40	< 0.2	0.34	560	0.5	12	23.4	0.5	4	70	27
104692	205 226	15	1	3.0	70	< 0.2	2.14	340	3.5	< 2	3.76	3.0	6	113	62
104693	205 226	5	2	3.2	30	< 0.2	2.64	190	13.0	< 2	4.39	0.5	7	95	57
104694	205 226	10	1	5.4	650	< 0.2	1.46	400	5.5	8	15.25	11.0	8	96	52

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

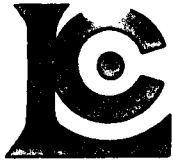
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-B
Total: 1
Certificate Date: 22-MAY-96
Invoice No.: 19618278
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9618278

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104680	205 226	9.88	0.28	0.19	80	21	0.01	30	3040	1000	64	0.08	183	10	140
104681	205 226	3.17	1.35	0.36	345	5	0.06	20	740	120	57	0.13	139	60	648
104682	205 226	3.42	1.18	0.50	945	1	0.06	40	400	290	47	0.13	163	10	3800
104683	205 226	9.23	0.43	0.63	3900	3	0.02	10	750	180	268	0.06	107	30	1085
104684	205 226	8.08	0.27	0.50	4050	2	0.01	8	460	270	291	0.04	92	30	3550
104685	205 226	15.40	0.45	1.22	8600	2	0.03	36	590	700	280	0.06	145	80	>10000
104686	205 226	0.61	3.94	0.50	120	3	0.25	3	350	270	53	0.22	20	< 10	246
104687	205 226	22.9	0.11	0.67	2930	7	0.01	11	190	< 2	103	0.08	111	40	122
104688	205 226	11.60	0.41	0.55	985	10	0.01	31	890	26	71	0.07	130	10	504
104689	205 226	4.95	0.55	0.45	1840	< 1	0.04	10	330	< 2	203	0.07	40	10	28
104690	205 226	16.55	0.04	0.59	700	7	0.01	28	320	< 2	59	0.10	72	10	146
104691	205 226	4.59	0.10	0.12	2140	13	< 0.01	9	3680	650	433	0.01	96	10	46
104692	205 226	12.25	0.44	0.96	3550	5	0.03	26	760	84	232	0.09	138	30	1090
104693	205 226	13.45	0.27	1.02	3200	15	0.04	29	800	40	238	0.08	160	30	38
104694	205 226	7.52	0.51	0.65	3740	5	0.03	28	830	940	339	0.05	105	30	3170

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 8 9 9 0

BILLING INFORMATION

Date: 28-MAY-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9618990

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				<u>-2.00</u>
Net Cost \$				6.00
(Reg# R100938885) GST \$				<u>0.42</u>
TOTAL PAYABLE (CDN) \$				6.42

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9618990

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9618990

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-MAY-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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VANCOUVER, BC
V7X 1C4

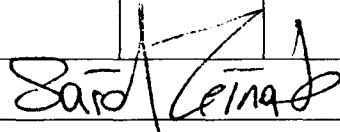
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Total Pages : 1
Certificate Date: 27-MAY-96
Invoice No. : I9618990
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9618990

SAMPLE	PREP CODE	Zn %									
104685	244 --	2.80									

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 9 4 5 3

BILLING INFORMATION

Date: 4-JUN-96
Project: WOLVERINE
P.O. No.: 6412
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9619453

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	331 - As %	12.50		
	348 - Sb %	12.50		
	344 - Hg %	12.50	131.82	263.64

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	305.64
	Client Discount (25% of \$298.64) \$	-74.66
	Net Cost \$	230.98
	(Reg# R100938885) GST \$	16.17

TOTAL PAYABLE (CDN) \$ 247.15

* Not Subject to Discount

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9619453

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE

A9619453

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6412

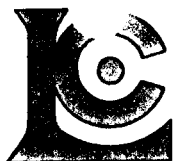
Samples submitted to our lab in Vancouver, BC.
This report was printed on 3-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	2	RUSH Assay ring approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
290	2	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	2	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	2	Ag g/tonne: RUSH	FA-GRAVIMETRIC	0.3	500.0
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	2	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	2	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	2	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	2	Ag ppm: high grade 24 element	AAS	0.5	200
4031	2	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	2	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	2	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	2	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	2	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	2	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	2	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	2	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	2	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	2	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	2	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	2	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	2	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	2	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	2	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	2	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	2	Pb %: high grade 24 element	AAS	0.001	10.00
4047	2	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	2	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	2	V ppm: A22 ICP package	ICP-AES	10	50000
4050	2	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 9 6 0 3

BILLING INFORMATION

Date: 13-JUN-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9619603

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
12	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1479.84

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	1521.84
	Client Discount (25% of \$1514.84) \$	<u>-378.71</u>

	Net Cost \$	1143.13
(Reg# R100938885)	GST \$	<u>80.02</u>

TOTAL PAYABLE (CDN) \$ 1223.15

* Not Subject to Discount

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Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 1-A
 Tot C 1
 Date: 12-JUN-96
 Invoice #: I9619603
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

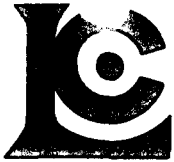
*PLEASE NOTE

QC DATA OF CERTIFICATE A9619603

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSH FA	Ag g/t	Cu %	Pb %	ZnBa %	(XRFSpec Gr ppm S.G.)	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CD-1 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	0.68 0.67	3.56 3.58	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CPB-1 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	0.007	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-90 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	840 865	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JV-1 CHEMEX MEAN	Std1 1	0.69 0.62	178 175	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	-----	0.84 0.83	0.45 0.45	0.93 0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	2.62 2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5.70 5.72	400 285	< 10 < 10	< 20 < 20	3.20 3.50	< 10 < 10	390 364	300 266

CERTIFICATION: Hart Beck

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P 1-B
Tot Q 1
Date: 12-JUN-96
Invoice #: 19619603
P.O. #: 6406
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

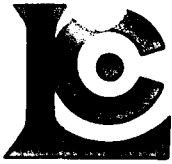
QC DATA OF CERTIFICATE

A9619603

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CPB-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	9910 9440	19.95 19.35	0.9 0.8	2.80 2.70	1030 961	< 10 < 10	1.55 1.38	11480 11050	----- -----	250 221	0.30 0.29	120 115	360 191

CERTIFICATION: Hart Buchler

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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 VANCOUVER, BC
 V7X 1C4

A9619603

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9619603**

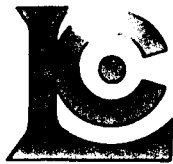
(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 13-JUN-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	12	RUSH Assay ring approx 150 mesh
295	12	RUSH crush and split (0-3 Kg)
3202	12	Rock - save entire reject
290	12	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	12	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	12	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	12	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	12	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	12	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	12	Ba ppm	XRF	10	50000
444	12	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	12	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	12	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	12	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	12	Ag ppm: high grade 24 element	AAS	0.5	200
4031	12	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	12	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	12	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	12	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	12	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	12	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	12	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	12	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	12	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	12	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	12	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	12	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	12	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	12	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	12	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	12	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	12	Pb %: high grade 24 element	AAS	0.001	10.00
4047	12	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	12	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	12	V ppm: A22 ICP package	ICP-AES	10	50000
4050	12	Zn ppm: A22 ICP package	ICP-AES	20	100000



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page # 1 of 1
 Total 3 : 1
 Certif. Date: 12-JUN-96
 Invoice No. : 19619603
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

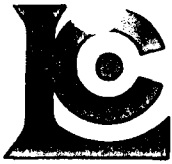
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9619603

SAMPLE	PREP CODE		Au g/t Ag g/t		Cu %	Pb %	ZnBa (XRFSpec Gr		As %	Sb %	Hg Ag ppm		Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSHER	FA	RUSHER	FA			%	ppm			S.G.	%									AAS
104746	258	295	0.75	233	0.28	2.54	18.80	215	3.81	0.16	0.11	0.004	>200	0.35	100	< 10	< 20	1.10	1990	70	250
104747	258	295	0.89	185	1.36	0.88	13.10	1210	4.00	0.14	0.02	0.002	181.0	1.75	300	< 10	< 20	0.35	1300	80	180
104748	258	295	0.51	120	0.93	0.38	11.70	2090	2.58	0.01	< 0.01	< 0.001	119.0	3.40	400	< 10	< 20	0.15	1240	60	230
104749	258	295	0.62	144	0.21	0.41	2.92	1060	3.09	0.09	0.09	< 0.001	144.0	1.55	800	< 10	< 20	0.05	280	30	300
104750	258	295	1.65	178	0.51	0.61	6.14	2950	3.49	0.17	< 0.01	< 0.001	175.0	4.45	400	< 10	< 20	0.15	630	20	250
104751	258	295	0.89	219	0.49	1.08	12.30	820	3.11	0.09	0.01	0.002	>200	1.10	600	< 10	< 20	0.55	1200	40	300
104752	258	295	1.71	559	0.60	2.32	15.70	135	4.48	0.09	0.06	0.002	>200	0.45	100	< 10	< 20	0.75	1430	40	170
104753	258	295	2.43	627	0.48	2.49	7.86	65	4.51	0.10	0.19	0.001	>200	0.30	< 100	< 10	< 20	0.10	580	10	180
104754	258	295	0.65	130	0.31	0.15	1.27	1790	2.60	0.04	0.03	< 0.001	132.0	1.75	1400	< 10	< 20	0.90	130	10	360
104755	258	295	3.39	521	0.47	2.04	7.54	170	4.27	0.13	0.12	0.001	>200	0.40	200	< 10	< 20	2.05	630	< 10	220
104756	258	295	2.81	329	0.43	1.69	13.80	1325	3.97	0.56	0.06	0.002	>200	1.65	300	< 10	< 20	0.40	1350	40	160
104757	258	295	0.72	213	0.44	0.46	5.42	500	3.16	0.03	0.03	< 0.001	>200	0.65	400	< 10	< 20	2.75	540	50	300

CERTIFICATION: Hart Bichler

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total : 1
Certificate Date: 12-JUN-96
Invoice No. : 19619603
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9619603

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
104746	258	295	2900	21.9	< 0.1	0.05	650	50	< 0.05	100	2.49	< 10	< 0.05	60	>100000
104747	258	295	13880	28.6	0.6	0.20	310	30	0.05	70	0.866	10	< 0.05	220	>100000
104748	258	295	9980	17.55	0.9	0.20	90	< 10	0.05	30	0.374	10	0.05	160	>100000
104749	258	295	2170	14.40	0.5	0.15	90	10	0.05	70	0.415	< 10	< 0.05	140	29900
104750	258	295	5220	21.8	1.5	0.40	170	10	0.05	30	0.601	10	0.05	260	56700
104751	258	295	5090	21.6	0.4	0.20	410	50	0.05	70	1.080	40	< 0.05	220	>100000
104752	258	295	6490	>30.0	0.1	0.05	690	100	< 0.05	50	2.31	< 10	< 0.05	100	>100000
104753	258	295	4990	>30.0	< 0.1	< 0.05	280	70	< 0.05	70	2.41	< 10	< 0.05	50	71100
104754	258	295	3010	6.15	0.8	0.25	90	100	0.05	190	0.137	40	0.05	900	13500
104755	258	295	4780	>30.0	< 0.1	0.15	660	60	< 0.05	110	2.02	20	< 0.05	130	68700
104756	258	295	4240	26.9	0.7	0.20	340	30	0.05	70	1.690	10	< 0.05	220	>100000
104757	258	295	4570	10.60	0.3	0.15	970	10	< 0.05	40	0.443	10	< 0.05	190	53600

CERTIFICATION: H. B. Tucker

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 1 9 6 0 4

BILLING INFORMATION

Date: 7-JUN-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9619604

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
29	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1010.65
				Total Cost \$ 1010.65
				Client Discount (25%) \$ -252.66
				Net Cost \$ 757.99
				(Reg# R100938885) GST \$ 53.06
				TOTAL PAYABLE (CDN) \$ 811.05



Chemex Labs Ltd.

Analytical Chemists **Geochemists **Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot Q: 1
 Date: 06-JUN-96
 Invoice #: I9619604
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

QC DATA OF CERTIFICATE A9619604

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
DV-95 CHEMEX MEAN	std1	1	145	----	----	----	----	----	----	----	----	----	----	----	----	----
	---	---	145	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.78	770	1.5	2	2.08	1.0	18	137	220
G90-TOT	std2	1	----	----	----	----	----	6.96	780	1.5	8	2.17	1.0	21	138	224
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	64	8.0	170	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	62	8.0	150	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	std2	1	340	----	----	----	----	----	----	----	----	----	----	----	----	----
	---	---	334	----	----	----	----	----	----	----	----	----	----	----	----	----
104721	Dupl	1-01	< 5	2	0.2	10	< 0.2	0.98	2740	< 0.5	2	1.21	< 0.5	2	211	15
	orig	1-01	< 5	1	0.8	< 10	< 0.2	0.99	2950	< 0.5	< 2	1.25	< 0.5	3	198	15

CERTIFICATION: Hart Buchler

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot C: 1
 Date: 06-JUN-96
 Invoice #: 19619604
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

QC DATA OF CERTIFICATE A9619604

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
DV-95 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G90-TOT	Std1	1	3.82	1.76	0.98	995	8	1.70	72	1090	-----	314	0.33	100	10	234
G90-TOT	Std2	1	4.06	1.82	1.03	1040	8	1.77	78	1180	-----	323	0.34	105	10	246
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	190	-----	-----	-----	-----	-----
GEO-90	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	180	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	195	-----	-----	-----	-----	-----
NG-94	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
104721	Dupl	-01	17.20	0.04	0.23	785	8	0.03	5	200	< 2	470	0.06	88	< 10	24
	Origl	-01	17.50	0.05	0.23	795	8	0.02	6	200	< 2	497	0.06	88	< 10	24

CERTIFICATION:

Hart Bichler

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9619604

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9619604

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 6-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	29	Geochem ring to approx 150 mesh
226	29	0-3 Kg crush and split
3202	29	Rock - save entire reject
285	29	ICP - HF digestion charge
287	29	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	29	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	29	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	29	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	29	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	29	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	29	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	29	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	29	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	29	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	29	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	29	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	29	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	29	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	29	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	29	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	29	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	29	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	29	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	29	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	29	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	29	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	29	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	29	Pb ppm: 24 element, rock & core	AAS	2	10000
582	29	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	29	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	29	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	29	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	29	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total: 1
 Certificate Date: 06-JUN-96
 Invoice No.: 19619604
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

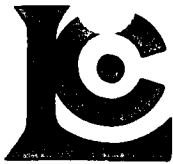
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9619604

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104721	205 226	< 5	1	0.8	< 10	< 0.2	0.99	2950	< 0.5	< 2	1.25	< 0.5	3	198	15
104722	205 226	< 5	18	0.2	30	< 0.2	2.58	>10000	2.5	6	0.43	< 0.5	20	174	141
104723	205 226	< 5	2	0.2	10	< 0.2	1.40	5130	< 0.5	2	1.00	< 0.5	6	336	35
104724	205 226	< 5	1	< 0.2	10	< 0.2	1.43	2410	< 0.5	< 2	0.32	< 0.5	1	201	22
104725	205 226	< 5	2	0.4	130	< 0.2	1.56	240	< 0.5	< 2	1.51	< 0.5	4	282	40
104726	205 226	10	2	< 0.2	160	0.4	2.57	2440	5.0	< 2	0.44	< 0.5	7	228	77
104727	205 226	< 5	1	< 0.2	< 10	< 0.2	1.13	650	< 0.5	< 2	0.93	< 0.5	< 1	224	28
104728	205 226	< 5	1	< 0.2	< 10	< 0.2	1.31	3280	2.5	6	0.21	< 0.5	3	185	43
104729	205 226	< 5	2	< 0.2	< 10	< 0.2	1.04	340	< 0.5	< 2	4.05	0.5	1	144	27
104730	205 226	< 5	2	0.2	190	< 0.2	2.71	5880	4.5	< 2	0.09	< 0.5	8	191	73
104731	205 226	35	22	2.6	790	< 0.2	2.92	120	7.0	< 2	0.29	21.0	7	284	64
104732	205 226	15	14	3.2	10	< 0.2	0.49	70	1.0	4	20.2	0.5	4	98	20
104733	205 226	25	28	5.4	40	< 0.2	0.44	90	1.0	2	15.20	< 0.5	3	177	25
104734	205 226	< 5	1	1.8	30	< 0.2	1.55	130	2.5	< 2	2.51	< 0.5	4	356	57
104735	205 226	< 5	2	1.2	150	0.2	2.45	140	4.5	2	3.74	3.0	6	280	63
104736	205 226	15	1	5.0	150	< 0.2	1.49	70	4.5	< 2	14.90	2.5	5	147	42
104737	205 226	10	2	1.2	140	< 0.2	2.61	60	8.5	2	8.29	3.5	9	206	47
104738	205 226	< 5	1	0.6	330	0.4	0.97	40	< 0.5	< 2	10.85	11.0	12	190	56
104739	205 226	< 5	1	0.6	10	< 0.2	2.21	110	0.5	2	1.22	0.5	3	329	35
104740	205 226	< 5	2	0.6	70	0.4	2.34	120	2.0	< 2	0.13	0.5	5	442	53
104741	205 226	< 5	2	4.6	10	< 0.2	7.47	450	2.5	< 2	1.52	< 0.5	5	160	8
104742	205 226	< 5	1	3.2	10	< 0.2	7.00	490	2.5	< 2	1.27	< 0.5	4	140	7
104743	205 226	< 5	4	15.0	30	< 0.2	6.88	350	2.5	< 2	1.67	0.5	5	139	10
104744	205 226	125	102	41	5130	4.2	8.83	120	3.5	< 2	0.52	22.0	5	167	24
104745	205 226	180	210	110	630	20.0	6.34	120	3.5	2	1.17	19.0	5	264	96
104758	205 226	45	30	22	300	5.2	6.65	410	1.5	< 2	2.38	24.5	5	241	440
104759	205 226	15	2	8.4	50	2.0	7.08	2230	2.0	< 2	1.17	3.0	5	129	51
104760	205 226	< 5	2	6.2	10	0.4	7.16	1730	2.0	< 2	0.84	0.5	4	91	30
104761	205 226	270	1	1.8	20	1.0	2.24	80	< 0.5	6	2.47	2.0	43	174	512

CERTIFICATION: *[Signature]*

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-B
 Total: 1
 Certificate Date: 06-JUN-96
 Invoice No.: 19619604
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9619604

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104721	205 226	17.50	0.05	0.23	795	8	0.02	6	200	< 2	497	0.06	88	< 10	24
104722	205 226	1.47	0.13	0.23	145	11	0.05	18	120	< 2	146	0.16	59	< 10	66
104723	205 226	11.25	0.21	0.21	430	9	0.04	10	240	< 2	479	0.08	83	10	34
104724	205 226	22.3	0.34	0.22	440	10	0.06	6	260	< 2	483	0.08	109	< 10	82
104725	205 226	19.35	0.46	0.40	710	22	0.05	25	500	18	249	0.07	136	< 10	246
104726	205 226	1.73	1.00	0.23	135	15	0.12	39	150	12	131	0.12	150	< 10	246
104727	205 226	21.8	0.16	0.13	280	18	0.01	6	270	< 2	385	0.06	95	< 10	20
104728	205 226	13.55	0.34	0.16	185	14	0.08	7	200	< 2	593	0.07	87	< 10	10
104729	205 226	22.0	0.23	0.19	1055	9	0.02	3	230	< 2	566	0.06	79	10	20
104730	205 226	1.40	1.03	0.33	65	7	0.10	44	120	10	149	0.12	133	< 10	330
104731	205 226	2.91	1.28	0.31	85	5	0.05	39	150	70	12	0.13	157	< 10	2750
104732	205 226	5.78	0.12	0.14	1740	16	< 0.01	6	1700	600	302	0.01	116	10	50
104733	205 226	5.02	0.09	0.11	1145	17	< 0.01	10	3300	530	178	0.01	112	10	22
104734	205 226	2.09	0.67	0.18	345	6	0.01	18	380	130	41	0.06	106	10	134
104735	205 226	3.34	1.00	0.49	1250	1	0.03	18	510	34	51	0.09	120	10	856
104736	205 226	7.17	0.64	0.42	2720	7	0.02	21	880	180	236	0.05	104	30	562
104737	205 226	5.88	1.17	0.43	1600	6	0.04	16	1170	190	197	0.09	178	20	932
104738	205 226	8.29	0.16	0.66	3110	4	0.01	22	1000	280	185	0.04	64	30	2070
104739	205 226	10.35	0.60	0.31	360	7	0.06	13	1050	< 1	202	0.11	108	20	84
104740	205 226	2.80	0.97	0.28	65	7	0.05	24	190	94	52	0.10	104	10	610
104741	205 226	2.05	3.11	0.89	250	3	0.69	7	690	28	88	0.21	29	< 10	96
104742	205 226	1.88	3.09	0.78	220	3	0.46	6	590	12	63	0.19	23	< 10	60
104743	205 226	1.75	3.27	0.79	335	5	0.13	8	560	22	65	0.18	40	< 10	90
104744	205 226	3.78	4.03	0.88	155	18	0.20	33	930	140	37	0.21	476	10	2200
104745	205 226	3.24	2.90	0.67	160	27	0.13	93	2860	620	49	0.15	586	10	2010
104758	205 226	2.72	2.15	4.24	855	4	0.20	6	360	160	62	0.11	38	10	2640
104759	205 226	1.60	2.41	4.05	460	3	0.21	4	350	130	40	0.14	19	< 10	490
104760	205 226	1.54	2.32	4.27	380	2	0.21	1	360	10	31	0.12	17	< 10	198
104761	205 226	17.75	0.13	1.63	790	2	0.05	267	590	30	60	0.08	143	10	202

CERTIFICATION: Hart Buchler

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

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O: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 0 2 5 0

BILLING INFORMATION

Date: 20-JUN-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9620250

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
84	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	2927.40

Total Cost \$	2927.40
Client Discount (25%) \$	<u>-731.85</u>
Net Cost \$	2195.55
(Reg# R100938885) GST \$	<u>153.69</u>
TOTAL PAYABLE (CDN) \$	2349.24

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P
 Tot C
 Date:
 Invoice #:
 P.O. #:

1-A
 1
 19-JUN-96
 19620250
 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

QC DATA OF CERTIFICATE A9620250

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std1	1	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std2	2	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	78	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	Std1	2	930	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	----	----	----	----	----	6.83	750	1.5	< 2	2.17	1.5	18	139	224
G90-TOT	Std2	1	----	----	----	----	----	7.00	780	2.0	< 2	2.19	1.5	19	137	225
G90-TOT	Std1	2	----	----	----	----	----	7.16	770	1.5	< 2	2.27	1.5	19	147	229
G90-TOT	Std2	2	----	----	----	----	----	6.81	730	1.5	< 2	2.19	2.0	18	136	218
G90-TOT	Std1	3	----	----	----	----	----	6.62	730	1.5	< 2	2.08	1.5	17	131	212
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	Std1	1	----	62	7.6	180	2.8	----	----	----	----	----	----	----	----	----
GEO-90	Std2	1	----	62	7.8	170	2.6	----	----	----	----	----	----	----	----	----
GEO-90	Std1	2	----	62	8.0	220	2.6	----	----	----	----	----	----	----	----	----
GEO-90	Std2	2	----	64	8.0	140	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94	Std2	1	335	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	2	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.29	10	< 0.5	2	0.01	< 0.5	< 1	4	2	
SIO2-T3	Blnk	2	----	----	----	----	0.28	20	< 0.5	2	0.01	< 0.5	< 1	4	1	
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	
104762	Dup1-01		10	2	1.2	10	< 0.2	1.62	840	0.5	< 2	0.10	< 0.5	7	169	67
	Orig1-01		10	1	1.0	< 10	< 0.2	1.69	890	0.5	2	0.12	< 0.5	8	186	68
104802	Dup2-01		5	30	4.4	90	< 0.2	3.14	270	1.5	< 2	0.95	1.5	10	206	93
	Orig2-01		< 5	28	4.2	60	< 0.2	3.14	460	2.0	< 2	0.94	1.0	10	203	93

CERTIFICATION: Hart Buchler

*Ba -ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pr
 Tot Q
 Date: 19-JUN-96
 Invoice #: 19620250
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

QC DATA OF CERTIFICATE A9620250

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.91	1.75	1.01	1025	7	1.69	77	1050	----	322	0.35	102	< 10	238
G90-TOT	Std2	1	3.93	1.77	1.02	1040	7	1.71	77	1070	----	325	0.35	102	< 10	238
G90-TOT	Std1	2	4.06	1.80	1.04	1065	9	1.75	80	1110	----	333	0.35	106	< 10	244
G90-TOT	Std2	2	3.87	1.69	0.99	1010	8	1.67	74	1090	----	318	0.35	101	< 10	256
G90-TOT	Std1	3	3.74	1.62	0.99	965	7	1.65	74	1040	----	311	0.33	97	< 10	226
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	2	----	----	----	----	----	----	----	----	188	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.05	0.05	0.01	< 5	< 1	0.01	1	200	----	176	0.01	3	< 10	< 2
SIO2-T3	Blnk	2	0.05	0.05	0.01	< 5	< 1	0.01	< 1	200	----	180	0.02	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
104762	Dup1-01		2.51	0.39	0.32	520	21	0.02	31	180	< 2	21	0.08	66	< 10	54
	Orig1-01		2.60	0.43	0.33	545	22	0.02	31	190	< 2	22	0.09	70	< 10	56
104802	Dup2-01		3.67	0.83	0.51	360	5	0.05	88	840	68	85	0.11	157	< 10	326
	Orig2-01		3.66	0.84	0.51	355	5	0.05	87	830	66	86	0.13	157	< 10	324

CERTIFICATION: *Hunt/Schler*

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9620250

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9620250

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	84	Geochem ring to approx 150 mesh
226	84	0-3 Kg crush and split
3202	84	Rock - save entire reject
285	84	ICP - HF digestion charge
287	84	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	84	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	84	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	84	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	84	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	84	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	84	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	84	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	84	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	84	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	84	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	84	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	84	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	84	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	84	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	84	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	84	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	84	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	84	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	84	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	84	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	84	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	84	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	84	Pb ppm: 24 element, rock & core	AAS	2	10000
582	84	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	84	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	84	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	84	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	84	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER

Page : 1-A
Total : 3
Certificate Date: 19-JUN-96
Invoice No. : 19620250
P.O. Number : 6406
Account : GPW

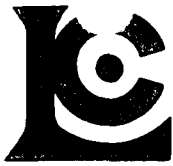
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9620250

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104762	205 226	10	1	1.0	< 10	< 0.2	1.69	890	0.5	2	0.12	< 0.5	8	186	68
104763	205 226	5	4	2.0	< 10	< 0.2	2.28	1210	< 0.5	< 2	2.15	< 0.5	12	147	38
104764	205 226	5	2	0.6	10	< 0.2	4.32	>10000	2.0	2	0.30	< 0.5	18	127	68
104765	205 226	< 5	18	0.4	50	< 0.2	1.56	640	0.5	< 2	0.79	< 0.5	3	201	13
104766	205 226	5	1	< 0.2	1390	< 0.2	3.12	3530	2.0	< 2	0.31	0.5	7	116	69
104767	205 226	< 5	1	< 0.2	< 10	< 0.2	2.99	3760	1.5	< 2	0.53	< 0.5	5	173	59
104768	205 226	10	2	< 0.2	50	< 0.2	2.67	6780	1.5	< 2	0.26	< 0.5	6	168	53
104769	205 226	125	2	< 0.2	< 10	< 0.2	1.65	760	< 0.5	< 2	2.18	< 0.5	4	197	50
104770	205 226	20	1	0.2	10	< 0.2	3.45	2220	4.0	< 2	0.47	< 0.5	7	224	99
104771	205 226	5	2	< 0.2	10	< 0.2	1.59	1040	1.5	< 2	0.30	< 0.5	5	260	81
104772	205 226	10	1	< 0.2	30	< 0.2	2.54	8300	2.5	< 2	0.24	< 0.5	7	116	67
104773	205 226	< 5	2	< 0.2	< 10	< 0.2	1.42	2900	3.0	< 2	2.60	< 0.5	3	69	20
104774	205 226	10	1	0.6	30	< 0.2	2.06	4800	2.5	< 2	0.22	< 0.5	5	143	48
104775	205 226	10	1	0.4	40	< 0.2	1.43	740	1.5	< 2	1.95	0.5	4	219	35
104776	205 226	5	1	0.2	290	< 0.2	2.73	4980	1.5	< 2	0.36	< 0.5	6	192	52
104777	205 226	5	2	0.2	50	< 0.2	1.67	710	2.0	< 2	1.37	< 0.5	3	208	37
104778	205 226	15	2	0.2	470	< 0.2	2.51	2540	2.0	< 2	0.76	0.5	8	182	48
104779	205 226	15	22	3.8	160	< 0.2	0.81	1180	2.5	< 2	16.45	2.0	3	79	33
104780	205 226	10	12	3.0	10	< 0.2	0.44	720	3.0	< 2	20.7	0.5	4	64	22
104781	205 226	15	16	3.6	40	< 0.2	0.49	810	2.0	< 2	18.35	1.0	4	84	29
104782	205 226	10	10	1.6	260	< 0.2	2.45	1250	4.5	< 2	3.29	2.0	5	179	61
104783	205 226	5	2	0.2	10	< 0.2	1.00	1760	1.5	< 2	>25.0	< 0.5	4	73	25
104784	205 226	15	6	2.2	1090	< 0.2	1.17	1150	2.0	< 2	3.67	6.5	3	219	55
104785	205 226	15	4	1.8	160	< 0.2	1.55	1180	3.0	2	6.04	2.5	4	95	45
104786	205 226	10	2	1.2	20	< 0.2	1.37	920	2.0	2	18.25	< 0.5	4	108	52
104787	205 226	5	2	1.0	40	< 0.2	1.96	910	3.0	2	4.97	0.5	3	141	52
104788	205 226	15	1	3.2	1400	< 0.2	2.70	770	5.0	< 2	4.73	34.0	7	104	72
104789	205 226	15	1	2.0	1030	< 0.2	2.13	770	4.5	< 2	6.80	29.5	6	124	63
104790	205 226	30	18	5.4	830	< 0.2	1.50	260	5.0	< 2	18.80	11.0	5	63	36
104791	205 226	20	16	3.4	710	< 0.2	1.89	450	4.5	< 2	15.60	11.5	7	105	54
104792	205 226	35	52	7.2	220	1.0	3.33	770	5.5	< 2	0.78	4.0	9	143	56
104793	205 226	35	98	7.8	180	1.2	1.42	270	2.0	< 2	1.11	5.5	4	144	25
104794	205 226	40	102	7.2	50	1.4	3.77	940	3.5	< 2	0.89	0.5	5	212	32
104795	205 226	10	4	1.4	100	< 0.2	8.17	1880	7.0	< 2	1.48	5.0	3	91	10
104796	205 226	5	4	1.0	< 10	< 0.2	6.45	2130	6.0	< 2	1.41	< 0.5	1	77	6
104797	205 226	< 5	6	1.2	< 10	< 0.2	7.87	2500	7.5	< 2	1.63	0.5	2	121	11
104798	205 226	< 5	4	1.0	40	< 0.2	5.13	1050	2.5	< 2	1.85	1.5	3	160	17
104799	205 226	5	6	1.4	120	< 0.2	3.67	960	1.5	< 2	3.55	4.0	5	207	28
104800	205 226	< 5	1	0.4	10	< 0.2	6.43	3820	5.5	< 2	0.94	0.5	2	74	8
104801	205 226	< 5	2	0.2	< 10	< 0.2	6.69	6740	5.0	< 2	0.87	0.5	3	90	6

CERTIFICATION: *Hart Buchler*

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*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9620250

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104762	205 226	2.60	0.43	0.33	545	22	0.02	31	190	< 2	22	0.09	70	< 10	56
104763	205 226	13.40	0.30	0.70	9710	10	0.10	23	470	< 2	452	0.08	151	< 10	70
104764	205 226	1.78	0.74	0.40	550	11	0.10	19	200	6	171	0.18	160	< 10	196
104765	205 226	9.45	0.37	0.17	460	3	0.05	7	370	< 2	473	0.09	108	< 10	18
104766	205 226	1.27	1.35	0.34	150	8	0.16	24	190	6	123	0.14	111	< 10	1505
104767	205 226	1.59	1.36	0.39	390	2	0.06	20	150	< 2	112	0.14	103	< 10	16
104768	205 226	0.98	1.16	0.31	175	7	0.08	21	120	10	115	0.12	93	< 10	60
104769	205 226	8.93	0.54	0.32	840	4	0.04	8	290	< 2	606	0.10	98	< 10	54
104770	205 226	3.38	1.50	0.35	240	40	0.13	20	170	< 2	152	0.18	126	< 10	76
104771	205 226	6.79	0.22	0.19	280	7	0.01	15	280	< 2	237	0.10	73	< 10	60
104772	205 226	1.26	1.14	0.28	115	4	0.06	33	450	10	211	0.12	131	< 10	72
104773	205 226	4.01	0.47	0.19	540	3	0.03	5	360	< 2	488	0.08	117	< 10	10
104774	205 226	1.49	0.88	0.24	115	12	0.05	21	190	4	211	0.12	123	< 10	86
104775	205 226	9.31	0.40	0.32	730	27	0.03	17	300	6	211	0.08	76	< 10	148
104776	205 226	0.97	1.12	0.32	210	8	0.11	35	110	14	175	0.11	106	< 10	380
104777	205 226	12.50	0.27	0.21	430	15	0.03	12	300	< 2	363	0.10	101	< 10	118
104778	205 226	1.62	0.87	0.38	280	12	0.07	24	350	42	382	0.10	91	< 10	454
104779	205 226	5.96	0.30	0.17	1550	14	0.01	9	1960	470	237	0.04	111	< 10	562
104780	205 226	5.99	0.11	0.12	1760	12	0.01	4	870	520	139	0.01	104	< 10	18
104781	205 226	4.84	0.14	0.12	1455	12	0.01	8	3710	400	244	0.01	117	< 10	128
104782	205 226	2.46	1.00	0.25	295	5	0.03	26	720	130	32	0.10	114	< 10	1170
104783	205 226	1.11	0.40	0.22	2050	2	0.02	7	410	22	677	0.04	35	< 10	78
104784	205 226	3.29	0.48	0.13	375	8	0.01	10	1120	160	77	0.04	84	< 10	5640
104785	205 226	2.25	0.65	0.17	625	12	0.02	9	430	86	112	0.06	84	< 10	918
104786	205 226	2.50	0.56	0.23	1745	3	0.03	14	250	50	360	0.06	57	< 10	86
104787	205 226	1.11	0.69	0.21	495	4	0.02	11	200	18	63	0.08	111	< 10	342
104788	205 226	5.88	0.91	0.54	915	1	0.05	42	570	340	92	0.13	145	< 10	>10000
104789	205 226	7.77	0.83	0.70	2240	3	0.04	34	520	186	87	0.10	135	< 10	6450
104790	205 226	6.20	0.59	0.34	2060	6	0.03	10	1360	200	274	0.05	105	< 10	3260
104791	205 226	4.68	0.70	0.37	2170	4	0.04	14	800	320	399	0.06	124	< 10	2130
104792	205 226	7.68	1.24	0.34	125	6	0.07	39	610	280	26	0.13	173	< 10	834
104793	205 226	8.19	0.55	0.14	245	9	0.03	39	130	270	18	0.05	122	< 10	800
104794	205 226	8.03	1.38	0.52	220	12	0.09	46	970	316	41	0.10	171	< 10	108
104795	205 226	2.17	3.33	1.17	380	4	0.22	2	70	56	82	0.14	9	< 10	884
104796	205 226	1.94	2.78	1.10	345	1	0.14	1	40	< 2	75	0.12	5	< 10	44
104797	205 226	1.60	2.51	1.28	365	4	0.66	3	70	< 2	124	0.14	38	< 10	18
104798	205 226	2.47	1.06	1.02	380	4	1.15	13	230	28	104	0.08	34	< 10	262
104799	205 226	3.17	0.74	1.49	935	5	0.14	21	440	90	135	0.09	60	< 10	864
104800	205 226	2.03	2.52	1.26	355	1	0.14	1	50	< 2	62	0.11	5	< 10	26
104801	205 226	1.85	2.29	1.21	300	5	0.14	1	70	< 2	73	0.12	9	< 10	20

CERTIFICATION: Hart Bickler

*Ba -ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Project: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 2-A
Total: 3
Certificate Date: 19-JUN-96
Invoice No.: 19620250
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9620250

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104802	205 226	< 5	28	4.2	60	< 0.2	3.14	460	2.0	< 2	0.94	1.0	10	203	93
104803	205 226	< 5	2	2.8	20	< 0.2	3.43	970	1.5	< 2	0.65	< 0.5	8	245	83
104804	205 226	< 5	1	3.4	10	< 0.2	1.98	1360	0.5	< 2	1.32	< 0.5	5	260	51
104805	205 226	< 5	2	4.0	30	< 0.2	3.36	970	0.5	< 2	0.52	< 0.5	8	162	62
104806	205 226	< 5	2	2.2	10	< 0.2	3.66	6720	1.0	< 2	0.79	< 0.5	9	158	51
104807	205 226	< 5	1	2.2	10	< 0.2	2.65	1240	0.5	< 2	1.70	< 0.5	5	182	29
104808	205 226	5	1	0.6	10	< 0.2	2.72	1280	0.5	< 2	1.01	< 0.5	7	137	45
104809	205 226	5	4	0.6	10	< 0.2	2.86	1200	0.5	< 2	1.69	< 0.5	7	169	47
104810	205 226	10	2	1.2	20	< 0.2	2.70	1000	0.5	< 2	1.56	< 0.5	8	173	64
104811	205 226	15	4	2.6	80	< 0.2	2.89	820	0.5	2	1.51	< 0.5	7	204	61
104812	205 226	10	2	3.6	50	< 0.2	2.86	890	0.5	< 2	1.02	< 0.5	7	152	45
104813	205 226	5	1	5.0	30	< 0.2	3.28	2270	1.0	< 2	1.01	< 0.5	8	197	50
104814	205 226	5	2	4.6	30	< 0.2	2.59	1140	0.5	< 2	1.04	< 0.5	7	199	53
104815	205 226	25	6	10.0	140	< 0.2	3.14	920	0.5	< 2	5.48	< 0.5	7	163	34
104816	205 226	10	24	3.4	70	< 0.2	1.81	900	< 0.5	2	0.85	< 0.5	6	340	48
104817	205 226	15	6	9.6	60	< 0.2	2.44	890	0.5	< 2	4.06	< 0.5	6	259	45
104818	205 226	5	1	2.4	30	0.2	3.83	1600	2.0	< 2	0.63	< 0.5	11	261	62
104819	205 226	< 5	2	4.8	40	< 0.2	3.89	370	2.5	< 2	0.36	< 0.5	14	240	52
104820	205 226	25	28	15.5	150	0.2	3.21	160	2.0	< 2	1.39	1.5	6	253	46
104821	205 226	20	32	14.0	80	< 0.2	3.82	250	2.0	< 2	1.33	1.5	5	255	36
104822	205 226	< 5	2	5.6	50	< 0.2	6.81	820	3.0	< 2	2.62	2.5	4	151	28
104823	205 226	< 5	1	2.4	< 10	< 0.2	7.71	3780	2.0	< 2	2.25	0.5	6	128	7
104824	205 226	< 5	1	0.6	< 10	< 0.2	7.05	3330	1.0	< 2	1.15	0.5	4	189	3
104825	205 226	< 5	4	1.0	< 10	< 0.2	7.06	2310	1.0	< 2	0.73	< 0.5	6	151	23
104826	205 226	< 5	4	0.6	10	< 0.2	7.12	2280	1.5	< 2	0.99	0.5	4	165	5
104827	205 226	< 5	4	1.4	30	< 0.2	7.30	1030	2.5	< 2	1.67	3.0	5	123	21
104828	205 226	10	4	2.4	30	< 0.2	7.64	1170	3.0	< 2	1.22	0.5	4	118	11
104829	205 226	20	6	17.0	250	1.2	7.15	660	3.5	< 2	1.23	5.0	4	167	43
104830	205 226	40	34	22	2120	9.6	6.04	580	3.0	< 2	1.85	66.0	4	191	129
104831	205 226	30	28	27	1870	5.4	6.07	380	3.5	< 2	2.24	52.0	4	164	136
104832	205 226	35	34	18.5	440	2.8	3.35	250	2.5	< 2	3.15	10.0	3	387	53
104833	205 226	50	78	60	1080	3.8	6.50	480	5.0	< 2	1.72	24.0	5	188	110
104834	205 226	65	128	64	1230	4.6	1.88	210	1.5	2	0.97	37.0	5	345	123
104835	205 226	60	96	38	820	3.4	4.09	150	3.5	< 2	2.04	19.5	5	303	127
104836	205 226	95	98	34	1040	2.2	3.03	120	2.5	2	1.62	23.5	4	225	117
104837	205 226	45	48	16.5	230	1.0	6.48	510	4.5	< 2	1.53	8.5	4	215	54
104838	205 226	< 5	20	2.8	30	< 0.2	7.38	1000	2.5	< 2	1.11	1.0	3	131	12
104839	205 226	< 5	12	5.2	120	0.6	7.63	1220	3.5	< 2	1.22	2.5	4	106	33
104840	205 226	10	24	17.0	270	2.4	5.32	260	2.5	< 2	4.04	8.5	3	236	202
104841	205 226	35	64	80	2260	5.6	4.42	270	2.0	2	4.61	82.5	7	221	646

CERTIFICATION:

[Handwritten signature]

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER

Page : 2-B
Total : 3
Certificate Date: 19-JUN-96
Invoice No. : 19620250
P.O. Number : 6406
Account : GP W

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9620250

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104802	205 226	3.66	0.84	0.51	355	5	0.05	87	830	66	86	0.13	157	< 10	324
104803	205 226	2.41	0.95	0.51	230	3	0.07	64	530	4	103	0.14	107	< 10	138
104804	205 226	1.34	0.63	0.42	700	1	0.03	42	180	< 2	72	0.06	58	< 10	60
104805	205 226	2.05	1.29	0.47	230	1	0.06	43	100	< 2	64	0.17	86	< 10	100
104806	205 226	1.50	1.45	0.57	230	1	0.07	37	100	< 2	110	0.20	92	< 10	68
104807	205 226	1.76	0.76	0.46	380	< 1	0.06	19	130	< 2	184	0.12	54	< 10	16
104808	205 226	1.54	0.99	0.41	225	1	0.04	38	140	< 2	124	0.13	77	< 10	30
104809	205 226	1.59	0.92	0.44	335	< 1	0.05	37	130	< 2	162	0.14	79	< 10	30
104810	205 226	1.30	1.01	0.30	205	1	0.08	41	120	< 2	152	0.11	100	< 10	40
104811	205 226	1.66	1.22	0.45	220	3	0.09	45	140	8	195	0.10	115	< 10	88
104812	205 226	1.82	1.18	0.47	275	1	0.05	39	130	< 2	111	0.12	81	< 10	48
104813	205 226	1.81	1.41	0.49	270	1	0.07	43	130	< 2	106	0.15	88	< 10	58
104814	205 226	1.52	1.11	0.42	245	1	0.06	43	120	< 2	105	0.11	89	< 10	46
104815	205 226	1.70	1.40	0.55	825	1	0.05	34	170	10	334	0.11	127	< 10	136
104816	205 226	1.16	0.62	0.19	145	2	0.05	53	90	< 2	83	0.07	94	< 10	60
104817	205 226	1.35	1.08	0.39	580	1	0.03	32	140	8	213	0.09	92	< 10	42
104818	205 226	1.54	1.86	0.45	285	1	0.06	32	200	4	24	0.16	126	< 10	10
104819	205 226	1.81	1.90	0.50	210	4	0.06	55	290	12	15	0.16	158	< 10	80
104820	205 226	2.13	1.56	0.39	225	14	0.04	50	1550	22	34	0.13	284	< 10	324
104821	205 226	1.95	1.80	0.45	265	8	0.06	31	1180	32	45	0.13	210	< 10	290
104822	205 226	1.86	3.20	0.82	455	6	0.11	12	420	86	66	0.17	64	< 10	292
104823	205 226	2.58	3.03	0.87	570	3	1.10	4	810	20	101	0.26	30	< 10	78
104824	205 226	2.73	2.56	0.54	1130	< 1	1.03	4	860	12	73	0.17	21	< 10	42
104825	205 226	2.52	2.94	0.49	885	3	0.48	8	760	8	43	0.18	20	< 10	84
104826	205 226	1.90	2.95	0.53	705	3	0.64	4	710	16	52	0.18	21	< 10	100
104827	205 226	2.15	3.11	0.81	420	2	0.67	6	550	48	76	0.18	35	< 10	402
104828	205 226	1.99	3.06	0.89	225	3	0.97	4	510	24	61	0.19	24	< 10	56
104829	205 226	1.84	3.33	1.07	280	9	0.14	14	420	130	55	0.17	80	< 10	584
104830	205 226	2.72	2.49	1.09	370	8	0.56	14	450	590	59	0.14	112	< 10	6800
104831	205 226	2.29	2.76	1.35	465	9	0.14	18	530	380	76	0.14	136	< 10	5380
104832	205 226	1.59	1.61	0.53	420	20	0.05	33	200	140	152	0.09	253	< 10	1225
104833	205 226	2.74	3.26	1.50	460	47	0.12	68	370	224	57	0.17	589	< 10	3190
104834	205 226	1.99	0.89	0.23	120	71	0.04	151	810	260	29	0.08	1120	< 10	5210
104835	205 226	2.54	1.82	0.52	235	48	0.07	96	880	240	49	0.11	772	< 10	2580
104836	205 226	2.31	1.39	0.45	180	64	0.05	117	1840	164	37	0.10	871	< 10	3400
104837	205 226	2.59	2.84	0.93	190	28	0.20	50	1610	130	55	0.15	401	< 10	1135
104838	205 226	1.70	1.63	0.97	185	4	3.02	5	530	40	46	0.18	23	< 10	132
104839	205 226	1.84	2.64	1.08	205	9	1.27	7	400	100	45	0.17	44	< 10	400
104840	205 226	1.91	1.95	0.92	485	28	0.36	51	1950	160	93	0.12	326	< 10	1095
104841	205 226	2.35	1.81	0.61	425	60	0.09	108	3580	240	104	0.10	683	< 10	8780

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page er :3-A
 Total s :3
 Certificate Date: 19-JUN-96
 Invoice No. :I9620250
 P.O. Number :6406
 Account :GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9620250

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104842	205 226	< 5	8	4.8	870	0.2	8.06	2130	2.5	< 2	1.91	13.0	4	128	44
104843	205 226	< 5	8	4.2	270	< 0.2	8.37	2040	2.5	< 2	1.47	5.0	4	112	46
104844	205 226	80	60	115	28500	8.4	2.38	170	< 0.5	12	4.12	319	14	283	7740
104845	205 226	< 5	8	2.4	140	< 0.2	7.11	1730	2.5	< 2	1.23	2.5	3	92	44

CERTIFICATION: Hart Bickler

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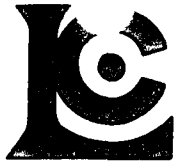
CERTIFICATE OF ANALYSIS A9620250

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104842	205 226	1.60	3.53	2.64	395	4	0.22	4	390	116	48	0.20	27	< 10	1510
104843	205 226	1.91	3.38	2.72	455	4	0.21	4	370	124	44	0.20	21	< 10	506
104844	205 226	3.13	1.14	1.40	650	34	0.04	78	1010	360	78	0.06	1255	< 10	>10000
104845	205 226	1.57	3.26	2.41	405	2	0.18	3	380	160	34	0.20	27	< 10	320

CERTIFICATION:

[Handwritten Signature]

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212 Brooksbank Ave., North Vancouver
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o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 0 7 4 0

BILLING INFORMATION

Date: 25-JUN-96
Project: PUCK
P.O. No.: 6412
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9620740

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
57	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1986.45
				Total Cost \$ 1986.45
				Client Discount (25%) \$ -496.61
				Net Cost \$ 1489.84
				(Reg# R100938885) GST \$ 104.29
				TOTAL PAYABLE (CDN) \$ 1594.13



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P
 Tot C. 1
 Date: 21-JUN-96
 Invoice #: I9620740
 P.O. #: 6412
 GP W

Project: PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

QC DATA OF CERTIFICATE A9620740

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std2	1	85	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	6.95	890	1.5	2	2.08	2.0	19	135	224
G90-TOT CHEMEX MEAN	Std2	1	----	----	----	----	----	6.89	740	1.5	< 2	2.08	1.5	18	139	217
G90-TOT CHEMEX MEAN	Std1	2	----	----	----	----	----	7.11	760	1.5	6	2.16	2.0	18	142	230
G90-TOT CHEMEX MEAN	Std1	2	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90 CHEMEX MEAN	Std1	1	----	60	7.6	240	2.8	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std2	1	----	66	8.0	220	2.8	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1	2	----	62	6.8	190	2.6	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1	2	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	Std1	2	325	----	----	----	----	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	Std1	2	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	0.33	30	< 0.5	< 2	0.05	< 0.5	< 1	8	3
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
TVB-95 CHEMEX MEAN	Std1	1	435	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95 CHEMEX MEAN	Std1	1	448	----	----	----	----	----	----	----	----	----	----	----	----	----
107260	Dup1-01		75	2	0.2	< 10	< 0.2	7.63	140	< 0.5	< 2	5.96	0.5	31	178	36
107260	Orig1-01		75	2	0.2	< 10	< 0.2	7.62	100	< 0.5	< 2	5.98	1.5	32	151	34
107300	Dup2-01		< 5	16	2.6	< 10	< 0.2	6.79	1140	1.5	< 2	1.81	1.0	3	112	1
107300	Orig2-01		< 5	14	2.8	< 10	< 0.2	6.65	1100	1.0	< 2	1.76	< 0.5	3	121	1

CERTIFICATION: *Handwritten Signature*



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

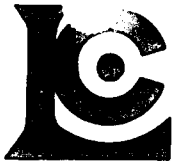
QC P: 1-B
 Tot C: 1
 Date: 21-JUN-96
 Invoice #: 19620740
 P.O. #: 6412
 GP W

Project: PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

QC DATA OF CERTIFICATE A9620740

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.96	1.76	1.02	985	7	1.73	73	1050	----	319	0.34	99	10	242
G90-TOT	Std2	1	3.86	1.70	1.02	960	7	1.67	76	1020	----	309	0.34	98	10	230
G90-TOT	Std1	2	4.00	1.74	1.06	990	8	1.76	77	1090	----	323	0.35	111	20	254
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	200	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94 CHEMEX MEAN	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2 < 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.08 0.05	0.06 0.03	< 0.01 < 0.01	10 20	< 1 < 1	0.02 < 0.01	4 < 1	200 207	----	175 178	0.01 < 0.01	3 2	< 10 < 10	2 < 2
TVB-95 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
107260	Dup1-01 Orig1-01		6.77 6.76	0.09 0.08	3.81 3.80	1155 1155	1 < 1	2.45 2.44	59 60	550 520	16 14	142 142	0.84 0.84	275 277	30 30	72 70
107300	Dup2-01 Orig2-01		1.27 1.23	3.91 3.65	0.63 0.63	375 365	< 1 2	0.25 0.24	6 5	640 630	6 6	83 81	0.17 0.16	15 14	< 10 < 10	14 12

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE

A9620740

(GP W) - WESTMIN RESOURCES LTD.

Project: PUCK
P.O. #: 6412

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	57	Geochem ring to approx 150 mesh
226	57	0-3 Kg crush and split
3202	57	Rock - save entire reject
285	57	ICP - HF digestion charge
287	57	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	57	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	57	As ppm: HNO ₃ -aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	57	Sb ppm: HCl-KClO ₃ digest, extrac	AAS-BKGD CORR	0.2	1000
20	57	Hg ppb: HNO ₃ -HCl digestion	AAS-FLAMELESS	10	100000
578	57	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	57	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	57	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	57	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	57	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	57	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	57	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	57	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	57	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	57	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	57	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	57	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	57	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	57	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	57	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	57	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	57	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	57	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	57	Pb ppm: 24 element, rock & core	AAS	2	10000
582	57	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	57	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	57	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	57	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	57	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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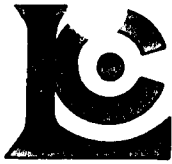
Page 1 of 1
 Total : 2
 Certificate Date: 21-JUN-96
 Invoice No. : 19620740
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 Account : GP W

Project : PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE OF ANALYSIS A9620740

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107260	205 226	75	2	0.2	< 10	< 0.2	7.62	100	< 0.5	< 2	5.98	1.5	32	151	34
107261	205 226	< 5	1	0.2	< 10	< 0.2	8.31	140	< 0.5	< 2	6.46	1.5	30	155	19
107262	205 226	< 5	2	< 0.2	< 10	< 0.2	4.04	1040	0.5	< 2	0.97	< 0.5	15	89	62
107263	205 226	< 5	1	0.2	< 10	< 0.2	8.04	380	< 0.5	< 2	6.08	0.5	29	153	8
107264	205 226	< 5	1	0.2	< 10	< 0.2	3.54	800	< 0.5	2	0.82	< 0.5	14	149	132
107265	205 226	< 5	2	0.4	< 10	< 0.2	7.79	2840	< 0.5	< 2	4.21	0.5	35	263	80
107266	205 226	< 5	1	0.2	< 10	< 0.2	3.62	1230	0.5	< 2	0.57	< 0.5	13	129	46
107267	205 226	< 5	2	< 0.2	< 10	< 0.2	3.53	3100	0.5	< 2	0.71	< 0.5	11	174	75
107268	205 226	< 5	40	0.2	< 10	< 0.2	6.35	2600	< 0.5	< 2	2.92	0.5	31	257	83
107269	205 226	< 5	12	0.2	< 10	< 0.2	4.92	5000	0.5	< 2	1.27	< 0.5	16	221	48
107270	205 226	< 5	2	0.4	< 10	< 0.2	2.96	1740	0.5	< 2	1.70	< 0.5	10	106	64
107271	205 226	< 5	16	0.2	10	9.0	4.24	4190	1.0	< 2	0.46	< 0.5	11	152	67
107272	205 226	< 5	1	0.4	< 10	1.0	3.56	1070	0.5	< 2	2.37	< 0.5	9	220	61
107273	205 226	< 5	2	0.2	< 10	< 0.2	2.54	2840	0.5	< 2	1.28	< 0.5	9	112	64
107274	205 226	< 5	2	< 0.2	< 10	< 0.2	3.38	6860	0.5	< 2	1.29	< 0.5	12	76	83
107275	205 226	< 5	1	0.2	< 10	< 0.2	2.31	4210	< 0.5	< 2	0.70	< 0.5	12	182	72
107276	205 226	< 5	4	0.8	< 10	4.0	3.38	1840	0.5	< 2	1.30	< 0.5	10	171	69
107277	205 226	< 5	2	0.4	< 10	30.0	2.35	2210	< 0.5	< 2	0.54	< 0.5	10	173	147
107278	205 226	< 5	2	0.6	< 10	0.8	3.74	3700	1.0	< 2	0.83	0.5	14	126	80
107279	205 226	10	18	3.2	30	0.4	8.50	>10000	3.5	< 2	1.10	1.5	9	90	11
107280	205 226	< 5	26	2.4	10	< 0.2	4.49	1280	1.0	< 2	5.60	0.5	20	116	90
107281	205 226	< 5	16	1.8	20	< 0.2	2.78	1770	2.5	< 2	1.01	0.5	11	244	76
107282	205 226	< 5	2	1.2	< 10	< 0.2	7.35	1590	2.5	< 2	0.61	0.5	4	120	8
107283	205 226	< 5	2	0.8	< 10	< 0.2	5.04	1450	1.5	< 2	1.31	0.5	3	133	3
107284	205 226	< 5	6	1.6	80	< 0.2	6.30	3570	1.0	< 2	1.99	1.0	5	129	6
107285	205 226	< 5	34	6.0	170	10.4	2.22	280	0.5	2	1.20	16.5	7	220	107
107286	205 226	< 5	2	1.6	< 10	< 0.2	6.90	1960	1.5	< 2	1.64	1.0	4	112	8
107287	205 226	< 5	10	3.6	< 10	1.6	5.25	580	1.5	< 2	1.51	1.0	10	189	117
107288	205 226	< 5	1	2.4	80	< 0.2	5.75	1130	1.0	< 2	2.56	2.0	12	159	63
107289	205 226	< 5	2	3.2	60	< 0.2	6.90	510	1.5	2	3.61	1.0	17	137	106
107290	205 226	< 5	70	2.0	10	0.6	4.96	1120	1.5	2	2.88	1.0	8	162	49
107291	205 226	< 5	2	0.8	30	< 0.2	6.61	1110	1.5	< 2	1.20	12.0	4	128	4
107292	205 226	< 5	1	0.4	< 10	< 0.2	6.48	1680	1.5	< 2	1.83	0.5	3	104	4
107293	205 226	< 5	2	0.4	< 10	< 0.2	6.73	1480	2.0	< 2	1.13	0.5	3	91	< 1
107294	205 226	< 5	2	0.4	< 10	< 0.2	6.63	1390	2.0	< 2	0.99	0.5	3	108	1
107295	205 226	< 5	22	0.8	< 10	< 0.2	6.91	1640	1.5	< 2	1.10	0.5	3	83	4
107296	205 226	< 5	242	1.0	10	< 0.2	6.54	1620	1.5	< 2	1.10	2.0	4	100	6
107297	205 226	< 5	14	0.6	10	< 0.2	6.77	1190	2.0	< 2	1.09	0.5	4	93	< 1
107298	205 226	< 5	424	1.0	< 10	< 0.2	6.78	1400	1.5	< 2	0.94	0.5	3	108	1
107299	205 226	< 5	60	1.2	< 10	< 0.2	8.80	740	1.5	< 2	6.05	0.5	37	340	16

CERTIFICATION: _____



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Project: PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE OF ANALYSIS A9620740

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107260	205 226	6.76	0.08	3.80	1155	< 1	2.44	60	520	14	142	0.84	277	30	70
107261	205 226	5.60	0.17	3.99	1140	< 1	2.36	64	300	4	149	0.61	250	30	58
107262	205 226	2.54	1.14	1.13	1185	< 1	0.74	34	240	4	113	0.28	93	< 10	56
107263	205 226	6.01	0.14	3.69	1060	< 1	2.74	55	370	< 2	161	0.70	248	30	52
107264	205 226	2.38	0.40	0.98	915	2	1.45	31	240	8	54	0.25	68	< 10	84
107265	205 226	6.32	0.79	2.80	1860	< 1	2.81	94	860	< 2	388	0.89	243	30	96
107266	205 226	2.21	1.12	0.75	825	< 1	0.31	33	250	< 2	114	0.25	64	< 10	54
107267	205 226	2.21	1.30	1.07	975	< 1	0.14	34	240	< 2	19	0.23	83	< 10	60
107268	205 226	5.39	0.74	2.98	1670	< 1	2.03	86	640	< 2	73	0.59	201	20	90
107269	205 226	3.29	1.63	1.60	1060	1	0.42	51	570	4	47	0.40	129	10	82
107270	205 226	1.85	0.98	0.61	1785	< 1	0.05	32	230	< 2	33	0.15	64	< 10	64
107271	205 226	2.20	1.24	0.72	1130	7	0.59	26	290	12	45	0.17	53	60	60
107272	205 226	1.88	1.32	0.76	1805	3	0.05	32	420	14	65	0.16	73	10	72
107273	205 226	1.46	0.81	0.58	2180	< 1	0.07	26	180	< 2	40	0.09	31	< 10	36
107274	205 226	1.99	0.96	0.84	2320	< 1	0.22	24	280	< 2	60	0.17	51	< 10	48
107275	205 226	1.70	0.57	0.70	1465	< 1	0.11	21	220	< 2	38	0.13	43	< 10	40
107276	205 226	1.89	0.88	0.79	2030	3	0.07	27	260	4	106	0.13	38	30	50
107277	205 226	1.89	0.64	0.58	1120	3	0.07	36	210	< 2	49	0.15	44	270	76
107278	205 226	3.37	1.12	0.74	1210	1	0.06	39	340	< 2	89	0.19	82	10	118
107279	205 226	4.22	5.85	0.31	385	6	0.22	11	520	84	100	0.18	43	10	58
107280	205 226	6.49	1.53	1.11	7930	3	0.10	52	1030	4	244	0.17	154	30	174
107281	205 226	2.34	0.98	0.41	725	3	0.03	49	1210	44	67	0.10	162	< 10	224
107282	205 226	1.54	3.65	0.92	150	3	0.18	7	770	16	64	0.16	41	< 10	60
107283	205 226	1.06	1.95	0.45	205	1	0.34	4	440	8	75	0.10	25	< 10	28
107284	205 226	0.99	2.41	0.25	250	3	0.12	7	720	18	104	0.13	34	< 10	188
107285	205 226	1.58	0.85	0.61	225	17	0.04	86	1340	6	60	0.08	502	90	1315
107286	205 226	1.22	2.74	0.30	200	3	0.13	6	710	20	93	0.16	37	< 10	66
107287	205 226	2.92	1.96	0.92	180	5	0.08	52	3350	6	167	0.19	196	10	106
107288	205 226	2.09	2.58	1.22	250	1	0.06	30	1010	< 2	88	0.19	86	< 10	126
107289	205 226	3.06	2.96	1.64	330	1	0.08	31	950	< 2	100	0.23	81	10	72
107290	205 226	2.14	2.15	1.50	420	4	0.06	36	800	4	175	0.17	135	10	224
107291	205 226	1.35	2.89	0.59	205	1	0.08	5	590	6	64	0.15	16	< 10	928
107292	205 226	1.43	3.99	0.41	210	2	0.25	3	560	22	95	0.12	17	< 10	30
107293	205 226	1.13	3.76	0.40	125	1	1.18	3	590	18	73	0.13	11	< 10	20
107294	205 226	1.51	3.60	0.44	190	3	1.04	5	630	12	74	0.15	26	< 10	30
107295	205 226	1.39	4.48	0.47	200	1	0.37	3	580	16	86	0.15	14	< 10	22
107296	205 226	1.61	3.65	0.51	205	< 1	0.27	4	580	20	82	0.15	13	< 10	288
107297	205 226	1.60	3.86	0.38	225	1	1.24	4	590	18	98	0.16	11	< 10	28
107298	205 226	2.09	3.92	0.37	155	1	0.85	5	580	28	80	0.14	11	< 10	26
107299	205 226	3.68	4.29	2.15	1020	1	0.18	69	960	2	177	0.68	216	30	24

CERTIFICATION: Hart Buchler



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SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107300	205 226	< 5	14	2.8	< 10	< 0.2	6.65	1100	1.0	< 2	1.76	< 0.5	3	121	1
107301	205 226	40	500	91	100	4.0	6.73	1210	1.0	< 2	1.13	2.5	3	101	4
107302	205 226	< 5	4	1.4	< 10	< 0.2	6.68	1310	1.5	< 2	1.32	1.0	4	111	1
107303	205 226	< 5	40	6.8	10	< 0.2	6.70	1220	1.5	< 2	1.02	0.5	4	107	2
107304	205 226	65	2	1.2	< 10	< 0.2	6.73	1290	1.5	< 2	1.22	0.5	3	77	4
107305	205 226	< 5	20	4.6	10	< 0.2	5.70	890	1.5	< 2	1.68	0.5	4	149	7
107306	205 226	< 5	2	1.2	20	0.4	6.74	1600	1.5	< 2	1.09	0.5	4	122	11
107307	205 226	10	14	5.6	30	0.6	3.59	530	1.0	< 2	1.44	0.5	5	180	77
107308	205 226	< 5	2	5.8	60	0.4	2.53	460	1.0	2	1.67	0.5	5	285	96
107309	205 226	< 5	12	5.2	80	14.0	3.47	910	0.5	6	2.94	1.5	8	329	104
107310	205 226	< 5	8	5.8	900	1.2	3.02	570	1.5	6	6.21	26.0	4	201	146
107311	205 226	< 5	18	6.0	200	1.2	2.22	440	0.5	8	5.07	6.5	5	358	118
107312	205 226	< 5	4	4.2	130	0.4	3.72	760	1.0	2	4.46	2.0	7	153	47
107313	205 226	< 5	2	3.4	90	< 0.2	4.31	900	1.5	2	3.85	1.5	7	171	44
107314	205 226	< 5	26	6.8	990	1.0	2.92	470	1.5	4	5.22	25.5	4	199	139
107315	205 226	10	28	6.6	430	2.0	2.56	490	0.5	6	4.40	12.5	5	252	132
107316	205 226	< 5	22	5.4	320	0.8	3.09	380	1.5	6	6.69	17.5	5	242	159

CERTIFICATION: Herbert Becker



Chemex Labs Ltd.

Analytical Chemists * Geochemists ** Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

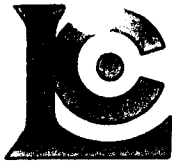
Page Number : 2-B
 Total : 2
 Certificate Date: 21-JUN-96
 Invoice No. : 19620740
 P.O. Number : 6412
 Account : GP W

Project: PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE OF ANALYSIS A9620740

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107300	205 226	1.23	3.65	0.63	365	2	0.24	5	630	6	81	0.16	14	< 10	12
107301	205 226	1.50	4.13	0.54	250	3	0.88	3	590	160	81	0.15	12	< 10	16
107302	205 226	1.52	4.41	0.60	270	1	0.22	3	580	16	87	0.16	12	< 10	20
107303	205 226	1.57	3.72	0.56	265	2	0.19	4	600	18	104	0.16	12	< 10	14
107304	205 226	1.44	3.17	0.62	295	1	0.11	5	580	< 2	86	0.17	12	< 10	44
107305	205 226	1.46	2.77	0.58	340	1	0.08	6	490	< 2	97	0.14	11	< 10	16
107306	205 226	1.75	3.43	0.59	225	1	0.15	5	620	< 2	73	0.16	14	< 10	20
107307	205 226	1.85	1.66	0.96	235	1	0.04	30	510	< 2	60	0.12	62	< 10	36
107308	205 226	1.98	1.11	0.99	250	2	0.02	29	460	< 2	51	0.10	61	10	52
107309	205 226	2.02	1.17	1.95	505	9	0.22	49	610	< 2	94	0.16	226	130	152
107310	205 226	1.57	0.96	3.35	375	54	0.03	135	2230	12	152	0.13	990	10	2240
107311	205 226	1.54	0.74	2.56	330	17	0.01	95	3790	14	148	0.08	538	10	518
107312	205 226	1.59	1.66	2.69	435	6	0.05	36	510	< 2	130	0.13	166	10	144
107313	205 226	1.52	1.93	2.38	420	10	0.04	42	440	< 2	120	0.15	212	< 10	138
107314	205 226	1.24	0.85	2.72	310	66	0.02	148	3070	10	123	0.13	1110	< 10	2210
107315	205 226	1.47	0.87	2.40	310	28	0.02	104	2280	12	109	0.10	767	< 10	1085
107316	205 226	1.40	0.89	3.48	385	57	0.02	153	3110	10	130	0.14	1325	10	1480

CERTIFICATION: *Andrew Turner*



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 0 9 5 8

BILLING INFORMATION

Date: 18-JUN-96
Project: PUCK
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9620958

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
--------------	---------------------------------	------------	--------------	--------

1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
---	--	--------------	------	------

Total Cost \$	8.00
Client Discount (25%) \$	-2.00
Net Cost \$	6.00
(Reg# R100938885) GST \$	0.42
TOTAL PAYABLE (CDN) \$	6.42

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9620958

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9620958

(GP W) - WESTMIN RESOURCES LTD.

Project: PUCK
P.O. #:

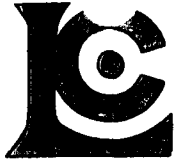
Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

TO: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page : 1
Total : 1
Certificate Date: 18-JUN-96
Invoice No. : 19620958
P.O. Number :
Account : GP W

Project : PUCK
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9620958

SAMPLE	PREP CODE	Zn %									
107207	244 --	1.35									

CERTIFICATION:



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 1 3 5 8

BILLING INFORMATION

Date: 1-JUL-96
Project: PUCK
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9621358

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
19	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	662.15
1	205 - Geochem ring to approx 150 mesh ICP-24 0-3 Kg crush and split	2.50 10.50 2.60		
	983 - Au ppb FA+AA	9.75		
	287 - Special dig'n with organic ext'n	5.25		
	13 - As ppm	5.25		
	20 - Hg ppb	5.25	41.10	41.10

Total Cost \$	703.25
Client Discount (25%) \$	<u>-175.81</u>
Net Cost \$	527.44
(Reg# R100938885) GST \$	<u>36.92</u>
TOTAL PAYABLE (CDN) \$	564.36

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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9621358

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9621358

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

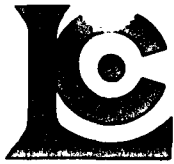
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 5-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	20	Geochem ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject
285	20	ICP - HF digestion charge
287	20	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	20	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	20	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	19	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	20	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	20	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	20	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	20	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	20	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	20	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	20	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	20	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	20	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	20	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	20	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	20	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	20	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	20	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	20	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	20	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	20	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	20	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	20	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	20	Pb ppm: 24 element, rock & core	AAS	2	10000
582	20	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	20	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	20	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	20	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	20	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-A
 Total : 1
 Certificate Date: 29-JUN-96
 Invoice No. : 19621358
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

* Corrected Copy*

CERTIFICATE OF ANALYSIS A9621358

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107325	205 226	< 5	4	< 0.2	30	< 0.2	2.60	2390	0.5	< 2	0.14	< 0.5	4	68	55
107326	205 226	< 5	4	< 0.2	< 10	< 0.2	3.57	2910	0.5	< 2	0.43	< 0.5	3	139	36
107327	205 226	< 5	36	0.4	< 10	< 0.2	3.35	4820	< 0.5	< 2	0.38	< 0.5	4	125	30
107328	205 226	< 5	8	0.2	120	< 0.2	2.54	1530	0.5	< 2	0.54	< 0.5	6	130	49
107329	205 226	60	10	0.6	30	< 0.2	2.52	670	< 0.5	< 2	0.34	< 0.5	5	149	46
107330	205 226	30	10	0.2	30	< 0.2	1.73	940	0.5	< 2	0.09	< 0.5	3	184	47
107331	205 226	5	6	0.4	20	< 0.2	1.96	960	1.0	< 2	0.13	< 0.5	4	163	61
107332	205 226	< 5	6	0.2	70	< 0.2	2.30	870	1.0	< 2	0.15	< 0.5	6	193	83
107379	205 226	< 5	4	0.4	< 10	< 0.2	0.66	1740	< 0.5	< 2	>25.0	< 0.5	4	14	8
107380	205 226	< 5	12	1.0	40	< 0.2	2.63	460	0.5	< 2	2.53	< 0.5	6	183	43
107381	205 226	< 5	12	11.5	170	< 0.2	2.29	390	0.5	< 2	0.85	< 0.5	5	139	50
107382	205 226	< 5	10	18.5	310	< 0.2	2.10	590	0.5	< 2	0.48	< 0.5	5	152	64
107388	205 226	< 5	12	0.2	< 10	< 0.2	4.35	1150	2.0	< 2	1.37	< 0.5	11	146	57
107389	205 226	< 5	16	0.6	< 10	< 0.2	4.12	970	2.0	< 2	2.48	< 0.5	13	165	59
107390	205 226	20	20	0.2	10	< 0.2	3.94	1030	2.5	< 2	0.42	< 0.5	13	138	67
107391	205 226	10	18	0.4	< 10	< 0.2	4.09	1120	2.5	< 2	0.51	< 0.5	10	154	75
107396	205 226	< 5	42	1.2	110	0.6	7.71	620	3.0	< 2	1.22	2.5	4	84	34
107397	205 226	< 5	46	not/ss	110	1.6	7.44	990	2.5	< 2	0.98	2.0	7	191	39
107398	205 226	50	64	15.0	1720	3.8	9.37	470	3.5	< 2	0.93	17.0	4	72	71
107399	205 226	10	58	8.4	80	1.0	6.47	330	1.5	< 2	5.17	6.0	6	71	26

CERTIFICATION: *B. Cough*

* Project changed from Puck to Wolverine *



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

0: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page : 1-B
Total : 1
Certificate Date: 29-JUN-96
Invoice No. : 19621358
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

* Corrected Copy*

CERTIFICATE OF ANALYSIS A9621358

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107325	205 226	0.92	1.00	0.27	60	1	0.22	19	100	8	98	0.13	88	< 10	50
107326	205 226	3.20	1.49	0.46	305	1	0.26	11	140	6	115	0.19	92	< 10	48
107327	205 226	9.52	1.13	0.50	480	< 1	0.38	13	540	< 2	169	0.17	101	< 10	44
107328	205 226	1.79	0.96	0.33	370	34	0.43	34	110	14	168	0.13	72	< 10	322
107329	205 226	9.58	0.56	0.47	655	24	0.37	21	600	4	172	0.13	95	< 10	116
107330	205 226	1.76	0.65	0.24	305	42	0.07	14	110	< 2	36	0.08	83	< 10	138
107331	205 226	1.01	0.69	0.26	115	9	0.08	33	290	< 2	89	0.08	74	< 10	82
107332	205 226	1.36	0.53	0.38	240	4	0.21	77	80	< 2	79	0.10	91	< 10	178
107379	205 226	1.19	0.13	0.26	3880	< 1	0.04	8	510	14	2030	0.03	17	< 10	30
107380	205 226	1.35	1.07	0.35	425	< 1	0.10	39	120	< 2	281	0.11	88	< 10	68
107381	205 226	1.07	1.01	0.30	140	1	0.19	42	70	< 2	132	0.09	112	< 10	108
107382	205 226	0.91	0.83	0.20	70	1	0.16	61	70	< 2	119	0.10	114	< 10	132
107388	205 226	1.58	2.32	0.57	1530	< 1	0.16	42	230	4	71	0.22	143	< 10	32
107389	205 226	1.57	2.19	0.51	780	< 1	0.13	45	170	12	134	0.21	126	< 10	32
107390	205 226	1.20	2.04	0.44	185	< 1	0.10	33	170	< 2	25	0.20	133	< 10	30
107391	205 226	1.39	2.04	0.51	380	< 1	0.12	38	230	< 2	30	0.21	125	< 10	30
107396	205 226	2.14	3.26	1.16	215	3	0.43	7	490	44	66	0.17	49	< 10	330
107397	205 226	3.16	3.52	1.53	230	3	0.21	7	500	76	48	0.19	31	< 10	258
107398	205 226	2.70	4.48	1.09	145	13	0.27	13	590	160	52	0.19	139	< 10	1895
107399	205 226	2.78	3.02	0.86	565	3	3.90	8	600	100	125	0.17	61	< 10	628

CERTIFICATION:

* Project changed from Puck to Wolverine *



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 1-A
 Tot C 1
 Date: 29-JUN-96
 Invoice #: 19621358
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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QC DATA OF CERTIFICATE A9621358

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CKR-W CHEMEX MEAN	Std1	1	100 81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	7.23 7.07	820 766	1.5 0.9	< 2 5	2.23 2.12	1.5 0.9	18 19	145 141	232 221
GEO-90 CHEMEX MEAN	Std1	1	----	68 61	8.4 7.7	200 189	3.2 3.0	----	----	----	----	----	----	----	----	----
107325	Dupl-01 Origl-01	-01 -01	< 5 < 5	4 4	< 0.2 < 0.2	30 30	< 0.2 < 0.2	2.64 2.60	1810 2390	0.5 0.5	< 2 < 2	0.06 0.14	< 0.5 < 0.5	4 4	127 68	54 55

CERTIFICATION: P. C. Laughlin

* Project changed from Puck to Wolverine *



Chemex Labs Ltd.

Analytical Chemists *Geochemists *Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pr
 Tot Q: 1
 Date: 29-JUN-96
 Invoice #: 19621358
 P.O. #: GP W

Project: PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9621358

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	4.00 3.98	1.86 1.76	1.03 1.00	1020 1015	7 7	5.65 1.74	77 76	1110 1120	----- -----	341 320	0.36 0.34	105 103	10 < 10	256 246
GEO-90 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	210 195	----- -----	----- -----	----- -----	----- -----	----- -----
107325	Dupl	1-01	0.91	1.00	0.26	55	1	3.70	19	90	< 2	99	0.12	89	< 10	44
	Origl	1-01	0.92	1.00	0.27	60	1	0.22	19	100	8	98	0.13	88	< 10	50

Yhai J Ma

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 1 1 5 6

BILLING INFORMATION

Date: 20-JUN-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9621156

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	16.00
Total Cost \$				16.00
Client Discount (25%) \$				-4.00
Net Cost \$				12.00
(Reg# R100938885) GST \$				0.84
TOTAL PAYABLE (CDN) \$				12.84

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9621156

Comments: ATTN: TERRY TUCKER

CERTIFICATE	A9621156
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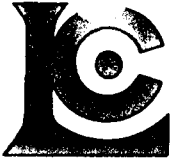
(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-JUN-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

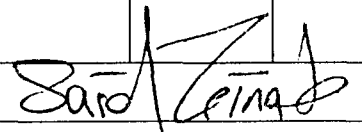
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page: 1
Total: 1
Certificate Date: 19-JUN-96
Invoice No.: I9621156
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS

A9621156

SAMPLE	PREP CODE	Zn %									
104788	244 --	1.27									
104844	244 --	3.45									

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER I 9 6 2 1 8 7 6

BILLING INFORMATION

Date: 5-JUL-96
 Project: WOLVERINE REGIONAL
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9621876

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
40	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1394.00
				Total Cost \$ 1394.00
				Client Discount (25%) \$ -348.50
				Net Cost \$ 1045.50
				(Reg# R100938885) GST \$ 73.19
				TOTAL PAYABLE (CDN) \$ 1118.69



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

J: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9621876

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9621876

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE REGIONAL
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 5-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	40	Geochem ring to approx 150 mesh
226	40	0-3 Kg crush and split
3202	40	Rock - save entire reject
285	40	ICP - HF digestion charge
287	40	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	40	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	40	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	40	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	40	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	40	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	40	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	40	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	40	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	40	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	40	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	40	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	40	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	40	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	40	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	40	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	40	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	40	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	40	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	40	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	40	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	40	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	40	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	40	Pb ppm: 24 element, rock & core	AAS	2	10000
582	40	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	40	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	40	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	40	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	40	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
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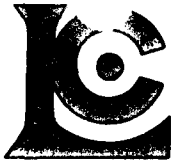
Page # : 1-A
Total : 1
Certificate Date: 05-JUL-96
Invoice No. : 19621876
P.O. Number : 6406
Account : GP W

Project : WOLVERINE REGIONAL
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9621876

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107317	205 226	< 5	1	0.2	< 10	< 0.2	1.65	3610	< 0.5	2	0.07	< 0.5	11	109	58
107318	205 226	< 5	2	< 0.2	10	< 0.2	2.69	3640	0.5	2	0.36	< 0.5	12	129	94
107319	205 226	< 5	1	< 0.2	40	< 0.2	3.72	6760	1.5	4	0.11	< 0.5	14	94	105
107320	205 226	< 5	60	0.4	10	< 0.2	2.06	1100	0.5	2	0.08	< 0.5	8	201	67
107321	205 226	< 5	10	0.2	< 10	0.2	2.94	280	1.0	< 2	0.43	< 0.5	9	258	81
107322	205 226	30	14	2.0	< 10	< 0.2	2.54	1000	< 0.5	< 2	1.22	< 0.5	7	147	27
107323	205 226	< 5	58	0.4	30	< 0.2	3.07	480	0.5	4	3.61	0.5	18	238	63
107324	205 226	< 5	6	0.2	160	< 0.2	2.97	2620	1.0	< 2	0.10	< 0.5	6	114	48
107333	205 226	< 5	2	0.4	20	0.4	2.66	1030	0.5	2	0.11	< 0.5	6	133	108
107334	205 226	10	2	< 0.2	30	< 0.2	2.51	890	0.5	2	0.16	< 0.5	8	134	76
107335	205 226	< 5	1	< 0.2	10	< 0.2	2.09	2550	0.5	< 2	0.16	< 0.5	5	130	27
107336	205 226	< 5	1	< 0.2	< 10	< 0.2	2.30	1590	0.5	< 2	0.59	< 0.5	5	201	40
107337	205 226	10	2	0.2	40	0.4	3.69	400	1.0	8	1.37	< 0.5	10	256	42
107338	205 226	15	1	1.0	80	0.8	4.36	310	1.5	2	0.64	< 0.5	13	280	82
107339	205 226	15	4	1.6	70	0.8	4.65	240	1.5	< 2	0.48	< 0.5	14	239	111
107340	205 226	10	2	1.4	90	0.6	4.29	260	1.5	< 2	0.32	< 0.5	15	254	118
107341	205 226	5	16	0.8	50	0.4	4.09	460	1.5	2	0.67	< 0.5	14	292	77
107342	205 226	< 5	1	0.4	40	0.4	3.00	390	0.5	2	1.53	< 0.5	8	272	47
107343	205 226	< 5	2	0.2	30	0.2	1.93	500	0.5	2	0.33	< 0.5	6	255	39
107344	205 226	< 5	2	0.2	10	< 0.2	1.24	2030	< 0.5	2	0.27	< 0.5	4	132	22
107345	205 226	< 5	2	0.2	50	< 0.2	1.19	500	0.5	4	0.21	< 0.5	3	392	40
107346	205 226	10	1	1.4	190	0.4	2.61	330	3.0	2	0.09	< 0.5	8	250	104
107347	205 226	40	1	0.8	20	0.2	3.30	440	3.5	2	1.59	< 0.5	5	254	55
107348	205 226	20	2	1.8	20	< 0.2	2.78	150	2.5	6	2.28	< 0.5	5	198	93
107372	205 226	10	6	4.2	190	0.6	2.19	150	3.5	2	1.27	3.0	13	296	70
107373	205 226	15	26	7.0	210	1.4	3.03	200	4.0	< 2	0.43	2.5	9	286	68
107374	205 226	10	8	3.8	80	0.8	2.17	170	2.5	2	0.63	1.5	9	372	51
107375	205 226	40	1	0.4	10	< 0.2	2.31	430	1.0	2	1.41	< 0.5	7	235	68
107376	205 226	< 5	2	0.6	20	< 0.2	2.51	200	1.0	6	2.49	< 0.5	7	268	52
107377	205 226	< 5	1	3.0	10	< 0.2	3.73	700	1.0	2	0.37	< 0.5	10	199	60
107378	205 226	< 5	2	1.6	10	< 0.2	2.80	590	0.5	4	0.51	< 0.5	7	131	45
107383	205 226	< 5	4	1.0	40	< 0.2	2.36	270	1.0	6	0.89	< 0.5	7	200	59
107384	205 226	15	12	3.4	150	< 0.2	1.59	150	0.5	6	7.76	< 0.5	6	319	55
107385	205 226	< 5	4	1.4	70	< 0.2	2.55	210	1.0	< 2	0.63	< 0.5	11	236	89
107386	205 226	< 5	2	0.6	10	0.2	3.14	1000	1.5	< 2	0.76	< 0.5	8	219	50
107387	205 226	< 5	32	0.8	< 10	0.4	4.09	960	2.0	< 2	1.76	< 0.5	28	228	94
107392	205 226	10	10	1.8	< 10	0.4	3.78	340	2.5	2	1.85	< 0.5	17	203	108
107393	205 226	15	4	6.2	40	0.6	2.95	100	2.0	2	1.91	0.5	9	246	59
107394	205 226	5	2	2.0	40	0.4	5.23	460	3.0	< 2	1.13	1.5	11	212	61
107395	205 226	< 5	6	1.2	460	1.0	6.58	480	2.0	2	2.26	16.0	5	155	36

CERTIFICATION: John P. Tucker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-B
 Total: 1
 Certificate Date: 05-JUL-96
 Invoice No.: I9621876
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9621876

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107317	205 226	1.22	0.44	0.44	1330	< 1	0.39	21	170	< 2	97	0.10	28	< 10	36
107318	205 226	1.83	0.58	0.68	1095	1	0.84	25	220	< 2	62	0.17	44	< 10	40
107319	205 226	2.16	0.93	0.67	2630	< 1	1.08	41	390	12	147	0.16	60	< 10	66
107320	205 226	1.57	0.82	0.38	505	2	0.04	41	300	2	46	0.12	58	< 10	78
107321	205 226	1.92	1.03	0.49	375	5	0.05	90	800	10	134	0.16	107	< 10	202
107322	205 226	16.50	0.55	0.52	3590	8	0.26	16	920	< 2	333	0.12	89	< 10	38
107323	205 226	4.89	0.94	0.40	2870	19	0.08	59	710	14	277	0.16	92	< 10	218
107324	205 226	1.12	1.14	0.33	155	5	0.15	32	110	8	82	0.14	93	< 10	234
107333	205 226	1.45	0.86	0.44	155	1	0.08	44	110	2	73	0.15	78	< 10	84
107334	205 226	1.47	0.95	0.36	200	1	0.05	45	110	< 2	43	0.15	78	< 10	80
107335	205 226	1.46	0.78	0.32	280	1	0.04	24	120	< 2	61	0.13	60	< 10	36
107336	205 226	1.48	0.72	0.33	610	1	0.04	29	120	< 2	57	0.14	70	< 10	48
107337	205 226	2.88	0.91	1.01	760	1	0.07	90	510	4	144	0.24	101	< 10	172
107338	205 226	3.15	1.35	1.06	595	3	0.09	122	830	6	137	0.24	142	< 10	284
107339	205 226	3.62	1.63	1.06	635	3	0.13	125	620	6	144	0.23	167	< 10	316
107340	205 226	3.15	1.51	0.82	1185	4	0.09	148	380	2	100	0.23	154	< 10	314
107341	205 226	2.69	1.42	0.74	1535	2	0.11	100	900	< 2	203	0.22	137	< 10	202
107342	205 226	2.41	0.89	0.71	715	1	0.06	63	540	4	142	0.19	100	< 10	120
107343	205 226	1.57	0.65	0.43	295	2	0.04	39	140	< 2	72	0.12	57	< 10	72
107344	205 226	1.06	0.43	0.27	200	1	0.02	21	100	< 2	81	0.07	36	< 10	24
107345	205 226	0.99	0.39	0.20	160	1	0.03	23	100	6	83	0.05	38	< 10	86
107346	205 226	1.72	0.95	0.35	90	4	0.05	104	100	12	32	0.13	113	< 10	690
107347	205 226	5.11	1.05	0.66	550	1	0.06	19	520	< 2	159	0.17	110	< 10	36
107348	205 226	4.81	0.70	0.76	500	3	0.05	18	290	< 2	160	0.14	86	< 10	24
107372	205 226	3.84	0.89	0.51	1805	3	0.03	46	920	48	68	0.10	157	< 10	440
107373	205 226	3.34	1.22	0.39	250	4	0.06	52	730	66	40	0.10	152	< 10	522
107374	205 226	2.25	0.84	0.39	295	4	0.03	39	650	80	47	0.12	117	< 10	206
107375	205 226	1.51	1.08	0.75	1030	< 1	0.03	28	290	6	116	0.11	52	< 10	66
107376	205 226	2.00	1.09	0.51	445	2	0.03	39	270	18	56	0.15	74	< 10	98
107377	205 226	1.88	1.62	0.49	230	< 1	0.05	47	130	2	40	0.20	93	< 10	46
107378	205 226	1.68	1.16	0.41	225	< 1	0.05	34	110	< 2	66	0.14	74	< 10	36
107383	205 226	1.12	1.01	0.30	175	1	0.12	56	120	2	88	0.10	107	< 10	54
107384	205 226	1.48	0.70	0.27	1125	< 1	0.03	36	130	24	384	0.06	79	< 10	170
107385	205 226	1.36	1.24	0.33	1175	< 1	0.04	44	320	30	25	0.11	107	< 10	164
107386	205 226	1.64	1.54	0.43	915	< 1	0.19	32	410	20	34	0.14	103	< 10	28
107387	205 226	2.00	2.19	0.62	3200	1	0.07	60	1250	10	78	0.21	152	< 10	28
107392	205 226	2.48	1.95	0.71	1855	< 1	0.05	49	300	4	93	0.19	121	< 10	36
107393	205 226	2.68	1.32	0.52	825	5	0.03	40	460	26	74	0.13	203	< 10	156
107394	205 226	1.71	2.27	0.60	430	4	0.11	32	400	36	48	0.17	120	< 10	178
107395	205 226	1.74	2.97	0.72	325	3	0.17	8	680	304	105	0.14	40	< 10	1540

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 1 8 8 2

BILLING INFORMATION

Date: 15-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9621882

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	18.75		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	85.45	256.35

Total Cost \$	256.35
Client Discount (25%) \$	<u>-64.09</u>
Net Cost \$	192.26
(Reg# R100938885) GST \$	<u>13.46</u>
TOTAL PAYABLE (CDN) \$	205.72

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9621882

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9621882

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	3	RUSH Geo ring to approx 150 mesh
295	3	RUSH crush and split (0-3 Kg)
3202	3	Rock - save entire reject
285	3	ICP - HF digestion charge
287	3	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	3	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	3	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	3	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	3	Ba ppm	XRF	10	50000
444	3	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	3	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	3	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	3	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	3	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	3	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	3	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	3	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	3	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	3	Cd %: 24 element, rock & core	ICP-AES	0.01	25.0
562	3	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	3	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	3	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	3	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	3	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	3	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	3	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	3	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	3	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	3	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	3	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	3	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	3	Pb ppm: 24 element, rock & core	AAS	2	10000
582	3	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	3	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	3	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	3	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	3	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page # ar :1-A
Total : 1
Certificate Date: 13-JUL-96
Invoice No. : I9621882
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9621882

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm	As ppm	Sb ppm	Hg Ag ppm	Al % Ba ppm	Be ppm	Bi ppm	Ca % Cd ppm	Co ppm	Cr ppm					
			RUSH	RUSE			S.G.			AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)					
107516	255	295	200	45.5	0.07	0.17	0.96	6060	2.71	164	200	2500	42.0	5.30	120	2.5	< 2	1.59	77.5	5	241
107517	255	295	275	43.5	0.04	0.10	1.20	4200	2.67	216	160	3500	42.0	4.26	110	3.0	< 2	1.00	107.0	5	307
107519	255	295	55	12.7	0.04	0.04	0.34	1720	2.59	282	110	1300	11.6	2.52	160	1.0	< 2	1.87	37.0	5	484

CERTIFICATION: Hart Buchler

*Ba- ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page : 1-B
Total : 1
Certificate Date: 13-JUL-96
Invoice No. : I9621882
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER

CERTIFICATE OF ANALYSIS A9621882

*PLEASE NOTE

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
107516	255	295	604	4.24	2.48	0.74	285	22	0.12	52	940	1700	54	0.14	421	10	8160
107517	255	295	351	4.84	2.02	0.54	160	29	0.09	90	1680	920	38	0.11	797	10	>10000
107519	255	295	392	1.96	1.24	0.25	135	50	0.05	163	4790	360	51	0.09	1425	10	3320

CERTIFICATION: Hart Bickler

*Ba- ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 1 8 8 3

BILLING INFORMATION

Date: 12-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9621883

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	246.64

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

Total Cost \$	288.64
Client Discount (25% of \$281.64) \$	<u>-70.41</u>

Net Cost \$	218.23
(Reg# R100938885) GST \$	<u>15.28</u>

TOTAL PAYABLE (CDN) \$ 233.51

* Not Subject to Discount

COPY



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9621883

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9621883

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 12-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	2	RUSH Assay ring approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
290	2	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	2	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	2	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	2	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	2	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	2	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	2	Ag ppm: high grade 24 element	AAS	0.5	200
4031	2	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	2	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	2	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	2	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	2	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	2	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	2	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	2	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	2	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	2	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	2	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	2	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	2	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	2	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	2	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	2	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	2	Pb %: high grade 24 element	AAS	0.001	10.00
4047	2	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	2	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	2	V ppm: A22 ICP package	ICP-AES	10	50000
4050	2	Zn ppm: A22 ICP package	ICP-AES	20	100000



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page er : 1-A
Total : 1
Certificate Date: 12-JUL-96
Invoice No. : 19621883
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9621883

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	FA	RUSH	FA			ppm	S.G.				AAS									
107518	258	295	0.41	120	1.61	0.43	22.7	3030	3.69	0.02	0.01	0.002	129.0	4.00	100	< 10	60	0.30	2030	100	120
107520	258	295	0.62	195	1.68	0.56	28.2	1620	3.48	0.03	0.25	0.005	202	2.30	300	< 10	100	2.30	2900	100	110

CERTIFICATION: Hart Buchler



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page # : 1-B
Total : 1
Certificate Date: 12-JUL-96
Invoice No. : 19621883
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS

A9621883

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
107518	258	295	16500	20.1	1.6	0.35	170	< 10	0.10	40	0.411	20	0.05	250	>100000
107520	258	295	17720	11.40	0.9	0.45	380	< 10	0.05	40	0.546	60	< 0.05	120	>100000

CERTIFICATION: Stuart Bickler



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 1 8 8 4

BILLING INFORMATION

Date: 9-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9621884

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	18.75		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	85.45	256.35

Total Cost \$	256.35
Client Discount (25%) \$	-64.09
Net Cost \$	192.26
(Reg# R100938885) GST \$	13.46
TOTAL PAYABLE (CDN) \$	205.72



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9621884

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9621884

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 9-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	3	RUSH Geo ring to approx 150 mesh
295	3	RUSH crush and split (0-3 Kg)
3202	3	Rock - save entire reject
285	3	ICP - HF digestion charge
287	3	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	3	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	3	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	3	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	3	Ba ppm	XRF	10	50000
444	3	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	3	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	3	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	3	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	3	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	3	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	3	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	3	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	3	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	3	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	3	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	3	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	3	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	3	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	3	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	3	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	3	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	3	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	3	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	3	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	3	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	3	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	3	Pb ppm: 24 element, rock & core	AAS	2	10000
582	3	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	3	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	3	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	3	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	3	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page : 1-A
 Total : 1
 Certificate Date: 09-JUL-96
 Invoice No. : 19621884
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER

* PLEASE NOTE

CERTIFICATE OF ANALYSIS	A9621884
--------------------------------	-----------------

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm	As ppm	Sb ppm	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
			RUSH	RUSH	%	%	ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
104958	255	295	220	16.3	0.02	0.05	0.24 4900 2.56	400	125	1500 15.6	2.66	290	4.5	4	1.80	21.0	6	384
104963	255	295	340	38.9	0.03	0.07	0.50 2300 2.56	266	270	1300 35.6	2.93	170	4.0	4	1.07	47.5	6	536
104968	255	295	505	204	1.48	0.54	6.33 1015 2.80	12	220	500 >100.0	2.88	260	< 0.5	Intf*	16.80	>500	27	156

CERTIFICATION: Hank Buchler

*INTERFERENCE: Cu on Bi and P



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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page Number: 1-B
Total Pages: 1
Certificate Date: 09-JUL-96
Invoice No.: 19621884
P.O. Number: 6406
Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9621884

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
104958	255	295	179	4.96	1.13	0.32	135	85	0.05	208	5820	260	70	0.10	1275	30	2260
104963	255	295	297	3.93	1.41	0.33	45	82	0.06	256	4340	510	46	0.11	2040	10	4760
104968	255	295	>10000	4.17	0.58	0.95	1400	6	0.03	13	Intf*	4800	713	0.03	138	20	>10000

CERTIFICATION: Haut Buchler

*INTERFERENCE: Cu on Bi and P



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P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 1 8 8 5

BILLING INFORMATION

Date: 12-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9621885

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	986.56

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	1028.56
Client Discount (25% of \$1021.56)\$		<u>-255.39</u>

	Net Cost \$	773.17
(Reg# R100938885)	GST \$	<u>54.12</u>

TOTAL PAYABLE (CDN) \$ 827.29

* Not Subject to Discount



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 1-A
 Tot C 1
 Date: 12-JUL-96
 Invoice #: 19621885
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

QC DATA OF CERTIFICATE

A9621885

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSE FA	Ag g/t RUSHERUSE FA	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	0.008	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	0.68 0.67	3.52 3.58	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	860 865	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.58 0.62	165 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.83 0.83	0.45 0.45	0.94 0.95	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	2.58 2.62	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	5.0 4.3	5.50 5.72	300 285	< 10 < 10	20 < 20	3.15 3.50	< 10 < 10	370 364	280 266

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot G: 1
 Date: 12-JUL-96
 Invoice #: 19621885
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

QC DATA OF CERTIFICATE A9621885

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	std1 1	9640 9440	19.40 19.35	0.8 0.8	2.70 2.70	980 961	< 10 < 10	1.40 1.38	11070 11050	0.007 0.007	230 221	0.30 0.29	110 115	520 191

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 V7X 1C4

A9621885

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9621885

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 12-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	8	RUSH Assay ring approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
290	8	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	8	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	8	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	8	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	8	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	8	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	8	Ba ppm	XRF	10	50000
444	8	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	8	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	8	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	8	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	8	Ag ppm: high grade 24 element	AAS	0.5	200
4031	8	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	8	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	8	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	8	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	8	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	8	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	8	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	8	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	8	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	8	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	8	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	8	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	8	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	8	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	8	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	8	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	8	Pb %: high grade 24 element	AAS	0.001	10.00
4047	8	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	8	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	8	V ppm: A22 ICP package	ICP-AES	10	50000
4050	8	Zn ppm: A22 ICP package	ICP-AES	20	100000



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Page: 1 of 1
 Total: 1
 Certificate Date: 12-JUL-96
 Invoice No.: 19621885
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

CERTIFICATE OF ANALYSIS A9621885

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr ppm S.G.)	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)		
			RUSH	RUSH FA																	
104959	258	295	2.67	521	0.12	2.10	4.01	535	3.90	1.68	0.19	0.001	>200	0.65	200	< 10	20	0.85	260	< 10	210
104960	258	295	1.78	243	0.22	0.61	6.95	490	3.51	0.31	0.08	0.002	>200	0.70	200	< 10	20	0.80	670	20	240
104961	258	295	2.61	514	0.47	1.02	10.60	235	4.15	1.24	0.17	< 0.001	>200	0.45	200	< 10	20	0.70	1230	60	150
104962	258	295	3.09	487	0.24	1.75	7.64	345	4.03	1.08	0.21	0.005	>200	0.55	300	< 10	< 20	0.65	640	10	120
104964	258	295	3.36	624	0.49	1.99	13.20	695	4.00	0.94	0.15	< 0.001	>200	1.15	500	< 10	60	0.60	1320	30	170
104965	258	295	0.14	24	0.12	0.06	0.40	1845	2.59	0.03	< 0.01	< 0.001	31.0	2.30	1500	< 10	< 20	3.40	40	< 10	330
104966	258	295	< 0.07	3	0.03	0.07	0.78	3180	2.87	< 0.01	< 0.01	< 0.001	9.0	4.70	2600	< 10	< 20	13.90	60	< 10	120
104967	258	295	0.75	27	0.94	0.54	15.30	3000	3.80	0.06	0.01	< 0.001	181.0	2.90	100	< 10	40	0.85	1670	60	130

CERTIFICATION: *[Handwritten Signature]*



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to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page 1 of 1-B
Total 3 : 1
Certificate Date: 12-JUL-96
Invoice No. : 19621885
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9621885

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
104959	258	295	1220	>30.0	0.2	0.10	230	90	< 0.05	140	2.14	30	< 0.05	350	38000
104960	258	295	2310	24.2	0.3	0.10	260	60	0.05	160	0.580	10	< 0.05	450	64300
104961	258	295	4790	>30.0	0.1	0.05	340	80	< 0.05	130	1.000	20	< 0.05	200	91600
104962	258	295	2460	>30.0	0.1	0.05	350	130	< 0.05	220	1.710	30	< 0.05	240	67700
104964	258	295	5080	27.9	0.4	0.15	500	50	< 0.05	100	1.940	10	< 0.05	300	>100000
104965	258	295	1160	3.45	1.1	0.25	300	50	0.05	170	0.059	110	0.05	1210	4160
104966	258	295	310	5.90	2.1	2.70	2120	< 10	0.15	30	0.069	390	0.05	230	7540
104967	258	295	9770	25.7	1.0	0.30	280	10	0.05	40	0.512	30	< 0.05	250	>100000

CERTIFICATION:

Hart Bickler



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o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

INVOICE NUMBER

I 9 6 2 1 8 9 9

BILLING INFORMATION

Date: 5-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9621899

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
44	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1533.40
Total Cost \$				1533.40
Client Discount (25%) \$				<u>-383.35</u>
Net Cost \$				1150.05
(Reg# R100938885) GST \$				<u>80.50</u>
TOTAL PAYABLE (CDN) \$				1230.55



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 PROJECT: WOLVERINE
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 VANCOUVER, BC
 V7X 1C4

QC Pr
 Tot Q
 Date: 04-JUL-96
 Invoice #: 19621899
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9621899

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	std1	1	85 78	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT G90-TOT CHEMEX MEAN	std1 std2	1 1	----	----	----	----	----	6.60 6.89 7.07	770 770 766	2.0 2.0 0.9	6 6 5	2.04 2.07 2.12	1.5 1.5 0.9	19 18 19	142 142 141	225 231 221
GEO-90 GEO-90 CHEMEX MEAN	std1 std2	1 1	----	60 66 61	8.2 7.8 7.7	200 210 189	3.6 2.8 3.0	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	std2	1	330 334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10 19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	2 2	< 0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.28 0.24	30 13	< 0.5 < 0.5	2 < 2	0.02 0.01	< 0.5 < 0.5	< 1 < 1	< 1 5	< 1 5	1 2
104846	Dupl Origl	1-01 1-01	< 5 < 5	4 2	1.6 1.6	90 50	0.4 < 0.2	7.46 7.44	1940 1910	2.5 2.5	4 2	1.66 1.66	2.5 2.5	5 5	84 95	42 41

CERTIFICATION: Hart Buchler



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 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot C: 1
 Date: 04-JUL-96
 Invoice #: I9621899
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9621899

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	std1 1	3.75	1.76	0.98	965	6	1.78	76	1090	----	318	0.34	100	< 10	234
G90-TOT CHEMEX MEAN	std2 1	3.95	1.10	1.01	975	7	1.78	72	1070	----	321	0.35	101	< 10	240
G90-TOT CHEMEX MEAN	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	180	----	----	----	----	----
GEO-90 CHEMEX MEAN	std2 1	----	----	----	----	----	----	----	----	182	----	----	----	----	----
GEO-90 CHEMEX MEAN	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94 CHEMEX MEAN	std2 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	2	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk 1	0.06	0.06	0.01	< 5	< 1	0.01	3	200	----	180	0.02	3	< 10	< 2
SIO2-T3 CHEMEX MEAN	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
104846	Dup1-01	1.60	3.98	2.20	425	1	0.20	5	390	92	44	0.21	26	< 10	272
104846	Orig1-01	1.60	3.97	2.22	425	2	0.19	5	380	98	44	0.18	27	< 10	256

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V7X 1C4

A9621899

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9621899

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	44	Geochem ring to approx 150 mesh
226	44	0-3 Kg crush and split
3202	44	Rock - save entire reject
285	44	ICP - HF digestion charge
287	44	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	44	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	44	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	44	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	44	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	44	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	44	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	44	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	44	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	44	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	44	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	44	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	44	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	44	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	44	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	44	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	44	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	44	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	44	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	44	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	44	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	44	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	44	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	44	Pb ppm: 24 element, rock & core	AAS	2	10000
582	44	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	44	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	44	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	44	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	44	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
Total: 2
Certificate Date: 04-JUL-96
Invoice No.: 19621899
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9621899

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104846	205 226	< 5	2	1.6	50	< 0.2	7.44	1910	2.5	2	1.66	2.5	5	95	41
104847	205 226	5	20	26	1350	4.0	7.32	1000	3.0	4	5.42	15.0	6	115	156
104848	205 226	55	38	56	450	7.0	7.39	540	4.0	< 2	3.17	6.5	5	136	133
104849	205 226	15	40	59	1860	4.6	7.12	280	3.0	< 2	1.35	14.5	6	173	121
104850	205 226	25	66	34	2270	8.6	8.07	190	4.0	2	3.92	20.5	6	182	84
104851	205 226	15	20	4.8	370	2.0	6.58	230	2.0	< 2	1.73	1.0	4	129	11
104852	205 226	30	90	18.0	760	4.6	5.00	190	2.5	2	0.60	9.5	5	281	29
104853	205 226	40	44	9.8	1630	6.8	6.39	300	2.5	< 2	1.34	16.5	5	181	15
104854	205 226	60	46	12.5	1620	5.2	5.85	390	3.0	< 2	0.92	16.0	4	235	15
104855	205 226	60	56	17.5	3230	6.8	4.75	300	2.5	< 2	1.27	18.0	4	240	19
104856	205 226	50	60	16.0	1930	6.0	7.69	520	4.5	2	0.84	10.0	5	171	32
104857	205 226	25	70	30	2300	8.6	5.63	240	3.5	< 2	1.48	16.5	4	213	70
104858	205 226	15	26	12.0	3660	4.6	6.68	560	2.5	< 2	0.34	37.0	4	138	62
104859	205 226	15	24	22	4740	5.8	7.27	2880	2.5	2	0.22	41.0	5	158	65
104860	205 226	15	18	20	3230	2.8	7.37	1950	1.5	< 2	1.08	29.5	5	108	81
104861	205 226	20	42	98	5660	7.6	5.88	420	1.5	6	1.14	139.0	4	168	316
104862	205 226	15	34	13.0	3140	4.6	6.72	370	2.0	6	7.42	68.5	6	53	162
104863	205 226	< 5	6	2.0	250	< 0.2	7.09	770	2.0	< 2	5.99	9.0	5	63	21
104864	205 226	< 5	4	1.8	530	0.2	6.34	1050	2.0	< 2	2.84	24.0	4	73	56
104865	205 226	< 5	12	10.5	1080	2.0	6.08	1020	2.0	10	1.33	26.0	7	112	59
104866	205 226	< 5	4	2.0	10	1.0	5.75	1000	2.0	2	1.47	0.5	5	110	14
104867	205 226	< 5	2	2.6	90	< 0.2	6.46	1370	2.0	< 2	1.99	2.5	4	173	19
104868	205 226	< 5	1	1.4	20	< 0.2	5.84	1470	2.0	< 2	3.26	2.0	3	108	15
104869	205 226	< 5	1	0.8	100	< 0.2	6.38	1840	2.0	< 2	3.48	2.5	4	125	11
104870	205 226	< 5	6	0.4	300	0.2	6.40	2130	2.0	< 2	3.94	5.5	5	151	51
104871	205 226	< 5	18	5.8	410	0.6	6.98	450	3.0	< 2	2.45	6.5	5	141	33
104872	205 226	5	24	5.6	210	0.6	6.29	540	2.5	< 2	1.97	3.5	4	147	21
104873	205 226	10	1	2.0	60	< 0.2	6.92	430	2.5	< 2	0.93	0.5	4	86	9
104874	205 226	< 5	2	1.2	50	< 0.2	6.69	1530	2.0	< 2	1.04	0.5	4	89	6
104875	205 226	< 5	2	2.0	70	< 0.2	6.32	760	2.0	< 2	0.98	0.5	4	101	6
104876	205 226	< 5	8	6.8	250	0.4	6.53	410	2.5	< 2	0.64	3.0	4	142	19
104877	205 226	< 5	24	9.6	400	1.2	5.73	400	2.5	< 2	0.83	6.5	4	171	31
104878	205 226	< 5	2	2.2	70	< 0.2	5.93	350	2.0	< 2	1.28	1.0	4	172	11
104879	205 226	< 5	1	0.8	10	< 0.2	6.71	300	2.0	< 2	0.96	1.0	4	156	6
104880	205 226	< 5	2	0.8	30	< 0.2	6.57	430	2.0	< 2	1.56	0.5	4	107	5
104881	205 226	< 5	2	0.4	30	< 0.2	7.10	890	2.0	< 2	1.52	1.0	5	96	6
104882	205 226	< 5	1	0.6	10	< 0.2	6.65	770	2.0	< 2	0.62	< 0.5	4	124	4
104883	205 226	< 5	1	0.2	< 10	< 0.2	6.89	1050	2.0	2	1.70	< 0.5	5	91	5
104884	205 226	< 5	1	0.2	10	< 0.2	6.42	810	2.0	< 2	1.71	1.0	5	106	4
104885	205 226	< 5	2	0.6	< 10	< 0.2	6.57	670	2.0	< 2	1.97	0.5	4	108	5

CERTIFICATION: *Terry Tucker*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-B
 Total: 2
 Certificate Date: 04-JUL-96
 Invoice No.: 19621899
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9621899

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104846	205 226	1.60	3.97	2.22	425	2	0.19	5	380	98	44	0.18	27	< 10	256
104847	205 226	1.61	4.07	1.29	780	3	0.18	9	400	254	197	0.18	98	< 10	1635
104848	205 226	1.27	3.97	0.64	425	3	0.15	9	380	206	160	0.20	73	< 10	640
104849	205 226	1.78	3.75	0.60	165	4	0.16	12	570	270	80	0.20	115	< 10	1980
104850	205 226	2.45	4.32	0.70	455	16	0.17	25	670	840	181	0.21	566	< 10	2240
104851	205 226	1.59	3.50	0.61	400	4	0.15	2	320	156	112	0.18	19	< 10	170
104852	205 226	2.89	2.64	0.53	115	8	0.12	33	380	164	33	0.13	228	< 10	978
104853	205 226	2.70	3.73	0.32	235	3	0.20	4	460	128	140	0.17	23	< 10	1655
104854	205 226	2.68	3.21	0.32	175	4	0.20	7	320	78	92	0.14	23	< 10	1450
104855	205 226	2.45	2.40	0.35	235	5	0.12	11	280	140	98	0.12	100	< 10	1905
104856	205 226	2.16	4.19	0.99	185	10	0.17	18	600	100	45	0.17	204	< 10	828
104857	205 226	1.56	3.07	0.73	215	15	0.11	34	660	530	106	0.13	212	< 10	1790
104858	205 226	2.62	4.19	0.23	70	2	0.23	3	320	162	71	0.14	21	< 10	3380
104859	205 226	2.85	3.93	0.21	60	3	0.22	4	350	352	40	0.17	18	< 10	3660
104860	205 226	2.76	3.32	0.07	70	3	0.23	1	410	332	77	0.19	11	< 10	2930
104861	205 226	3.54	2.39	0.22	145	4	0.30	3	310	1500	66	0.14	13	< 10	>10000
104862	205 226	2.71	3.63	0.80	700	6	0.18	4	730	860	297	0.23	33	< 10	6720
104863	205 226	2.44	3.74	1.02	985	< 1	0.19	4	890	10	146	0.29	25	< 10	800
104864	205 226	1.93	3.33	0.94	835	1	0.16	3	570	22	60	0.12	20	< 10	2580
104865	205 226	2.49	3.30	1.00	640	2	0.14	4	580	264	35	0.12	24	< 10	2660
104866	205 226	2.07	3.12	1.03	655	< 1	0.13	6	620	154	39	0.13	40	< 10	90
104867	205 226	1.15	3.27	0.56	385	1	0.14	5	630	46	48	0.13	30	< 10	294
104868	205 226	0.94	3.00	0.49	535	1	0.14	3	560	70	94	0.11	31	< 10	174
104869	205 226	0.93	3.22	0.53	490	2	0.15	4	710	124	149	0.12	29	< 10	342
104870	205 226	0.98	3.27	0.66	570	< 1	0.16	2	630	116	187	0.14	34	< 10	630
104871	205 226	1.75	3.64	0.65	310	6	0.14	19	890	76	85	0.16	140	< 10	470
104872	205 226	1.83	3.20	0.61	250	6	0.14	18	840	70	73	0.14	145	< 10	236
104873	205 226	1.60	2.85	0.68	140	1	0.15	5	680	18	53	0.16	26	< 10	38
104874	205 226	1.05	3.31	0.54	235	1	0.15	4	560	30	59	0.15	27	< 10	46
104875	205 226	0.99	3.04	0.45	175	1	0.14	6	760	30	58	0.14	27	< 10	66
104876	205 226	1.55	3.18	0.54	125	6	0.16	31	770	36	43	0.15	120	< 10	202
104877	205 226	1.93	2.41	0.56	120	13	0.14	35	1060	72	47	0.14	293	< 10	398
104878	205 226	1.63	2.86	0.62	150	1	0.15	1	510	28	75	0.12	22	< 10	76
104879	205 226	1.69	2.99	0.48	190	3	0.20	6	590	24	65	0.14	27	< 10	66
104880	205 226	1.19	3.13	0.49	265	1	0.15	5	530	24	107	0.15	24	< 10	40
104881	205 226	1.32	3.32	0.44	470	3	0.18	8	520	36	124	0.17	31	< 10	114
104882	205 226	1.04	3.03	0.39	165	2	0.15	7	610	24	63	0.14	29	< 10	40
104883	205 226	1.47	1.95	0.59	315	1	0.24	4	650	16	127	0.16	23	< 10	42
104884	205 226	1.29	3.24	0.57	280	1	0.14	4	580	22	101	0.15	21	< 10	46
104885	205 226	1.33	3.26	0.59	260	1	0.13	7	570	22	138	0.15	22	< 10	38

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 2-A
 Total Pages: 2
 Certificate Date: 04-JUL-96
 Invoice No.: 19621899
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9621899

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104886	205 226	< 5	1	1.0	20	< 0.2	7.00	420	2.0	< 2	2.53	0.5	5	184	11
104887	205 226	< 5	2	0.8	60	1.0	6.32	650	2.0	< 2	2.34	2.5	6	201	13
104888	205 226	< 5	2	0.4	< 10	< 0.2	5.59	870	2.0	< 2	0.79	0.5	4	179	5
104889	205 226	< 5	1	0.4	10	0.4	8.16	930	2.5	< 2	1.14	0.5	6	156	9

CERTIFICATION: Hart Bichler



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WESTMIN RESOURCES LTD.
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Page Number : 2-B
Total : 2
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Invoice No. : I9621899
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Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9621899

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104886	205 226	1.94	3.41	0.52	280	2	0.16	6	540	6	156	0.17	38	< 10	42
104887	205 226	1.77	2.87	0.42	220	2	0.21	9	820	96	187	0.18	60	< 10	344
104888	205 226	0.98	2.75	0.44	105	2	0.11	7	450	4	57	0.15	25	< 10	36
104889	205 226	1.64	2.67	0.66	145	3	0.19	7	580	30	85	0.19	35	< 10	44

CERTIFICATION: Hart Bickler



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212 Brooksbank Ave., North Vancouver
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0: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 2 4 3 0

BILLING INFORMATION

Date: 9-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

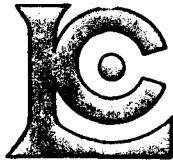
Billing: For analysis performed on
Certificate A9622430

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
67	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	2334.95
Total Cost \$				2334.95
Client Discount (25%) \$				-583.74
Net Cost \$				1751.21
(Reg# R100938885) GST \$				122.58
TOTAL PAYABLE (CDN) \$				1873.79



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

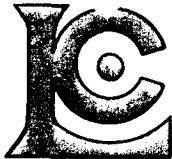
QC Pac 1-A
 Tot QC Pg: 1
 Date: 09-JUL-96
 Invoice #: 19622430
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622430

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	1	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	2	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	std1	2	910	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.61	1050	1.5	2	2.24	1.5	19	137	214
G90-TOT	std2	1	----	----	----	----	----	6.84	800	1.5	4	2.12	0.5	19	137	218
G90-TOT	std1	2	----	----	----	----	----	6.93	760	1.5	14	2.15	1.5	20	144	221
G90-TOT	std2	2	----	----	----	----	----	6.73	750	1.5	10	2.10	1.5	19	137	217
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	62	7.8	190	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	60	8.0	200	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	66	8.2	190	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	66	8.2	200	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94	std2	1	305	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	----	0.30	30	< 0.5	< 2	0.03	< 0.5	< 1	< 1	1
CHEMEX MEAN	---	---	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
107349	Dup1-01		< 5	4	0.4	10	< 0.2	3.99	5000	3.5	4	0.25	< 0.5	6	138	157
	Orig1-01		< 5	1	0.2	< 10	< 0.2	4.19	4940	3.0	< 2	0.29	< 0.5	6	160	164
107417	Dup2-01		< 5	1	0.4	< 10	< 0.2	6.93	1270	2.0	< 2	0.83	0.5	3	170	4
	Orig2-01		< 5	1	0.4	10	< 0.2	6.92	1280	2.0	< 2	0.83	< 0.5	4	99	6

CERTIFICATION: Hunt Birkler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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Co: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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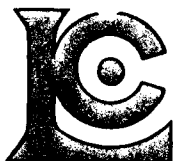
QC Pa: 1-B
 Tot QC Pg: 1
 Date: 09-JUL-96
 Invoice #: 19622430
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622430

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CKR-W CKR-W CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Std2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CSB-93 CHEMEX MEAN	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G90-TOT	Std1	1	3.82	1.81	0.97	1030	7	1.70	74	1130	-----	309	0.33	103	30	246
G90-TOT	Std2	1	3.83	1.77	0.99	1005	6	1.84	72	1100	-----	317	0.34	100	20	234
G90-TOT	Std1	2	3.92	1.75	1.01	1030	7	1.78	76	1090	-----	320	0.34	103	10	236
G90-TOT	Std2	2	3.85	1.70	0.98	1000	7	1.73	73	1050	-----	312	0.34	100	10	236
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	224	-----	-----	-----	-----	-----
GEO-90	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	194	-----	-----	-----	-----	-----
GEO-90	Std1	2	-----	-----	-----	-----	-----	-----	-----	-----	192	-----	-----	-----	-----	-----
GEO-90	Std2	2	-----	-----	-----	-----	-----	-----	-----	-----	196	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	195	-----	-----	-----	-----	-----
NG-94 CHEMEX MEAN	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-3 CHEMEX MEAN	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-G2 CHEMEX MEAN	Blnk	1	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.07	0.04	0.01	5	< 1	0.01	< 1	210	-----	180	0.02	3	< 10	2
	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
107349	Dup1-01		2.03	1.89	0.50	100	6	0.16	21	240	< 2	162	0.15	86	< 10	32
	Orig1-01		2.16	1.97	0.52	100	4	0.16	21	240	2	196	0.16	93	< 10	32
107417	Dup2-01		1.44	2.15	0.52	205	5	2.35	3	610	24	124	0.13	21	< 10	44
	Orig2-01		1.47	2.17	0.53	205	7	2.35	6	620	20	126	0.14	23	< 10	46

CERTIFICATION: Hart B. Hble



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9622430

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622430

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

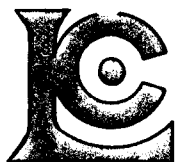
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 9-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	67	Geochem ring to approx 150 mesh
226	67	0-3 Kg crush and split
3202	67	Rock - save entire reject
285	67	ICP - HF digestion charge
287	67	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	67	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	67	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	67	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	67	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	67	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	67	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	67	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	67	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	67	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	67	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	67	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	67	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	67	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	67	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	67	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	67	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	67	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	67	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	67	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	67	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	67	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	67	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	67	Pb ppm: 24 element, rock & core	AAS	2	10000
582	67	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	67	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	67	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	67	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	67	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page No. : 1-A
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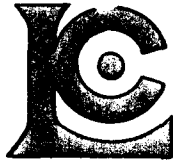
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622430

SAMPLE	PREP CODE		Au ppb	As ppm	Sb ppm	Hg ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
	FA+AA						AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
107349	205	226	< 5	1	0.2	< 10	< 0.2	4.19	4940	3.0	< 2	0.29	< 0.5	6	160	164
107350	205	226	< 5	4	1.2	50	< 0.2	1.18	140	1.5	2	16.60	< 0.5	3	84	27
107351	205	226	< 5	2	1.2	150	< 0.2	0.60	120	3.5	14	19.85	1.5	6	53	19
107352	205	226	< 5	4	1.6	150	< 0.2	0.78	110	4.5	12	22.7	3.5	7	61	36
107353	205	226	< 5	2	1.6	< 10	< 0.2	0.38	130	1.5	4	20.5	1.0	5	49	22
107354	205	226	< 5	1	1.2	120	< 0.2	0.67	90	0.5	< 2	4.46	< 0.5	6	203	50
107355	205	226	10	20	2.6	270	< 0.2	0.59	100	3.5	10	19.60	2.0	6	53	19
107356	205	226	< 5	18	2.0	290	< 0.2	0.75	100	4.5	8	23.0	3.5	6	57	35
107357	205	226	< 5	14	1.0	170	< 0.2	0.35	130	1.5	6	20.9	< 0.5	4	53	21
107358	205	226	15	28	2.6	90	0.4	0.66	90	1.5	< 2	4.14	< 0.5	5	212	51
107359	205	226	< 5	4	1.6	310	< 0.2	0.57	90	3.5	6	20.2	1.5	5	50	17
107360	205	226	< 5	22	4.2	40	0.6	0.40	40	3.0	< 2	1.89	< 0.5	3	215	31
107361	205	226	< 5	14	4.0	110	< 0.2	0.38	70	2.5	2	20.0	< 0.5	3	79	27
107362	205	226	< 5	8	4.4	150	0.4	2.00	150	4.0	< 2	1.38	< 0.5	3	105	70
107363	205	226	< 5	4	1.4	230	< 0.2	2.64	310	5.0	< 2	1.65	< 0.5	5	142	62
107364	205	226	< 5	4	0.8	30	< 0.2	2.30	680	3.5	2	14.30	< 0.5	6	124	57
107365	205	226	< 5	8	0.4	30	< 0.2	2.05	1950	4.0	< 2	3.39	< 0.5	4	99	58
107366	205	226	< 5	2	0.4	10	< 0.2	2.02	200	5.0	< 2	4.05	< 0.5	6	146	69
107367	205	226	< 5	4	0.4	< 10	< 0.2	2.36	230	5.0	< 2	3.79	< 0.5	6	151	67
107368	205	226	< 5	6	0.4	50	< 0.2	3.07	350	3.5	< 2	5.25	2.0	11	155	122
107369	205	226	< 5	2	0.6	10	< 0.2	1.98	180	1.0	2	6.84	< 0.5	12	113	81
107370	205	226	< 5	58	1.2	10	< 0.2	3.44	250	5.0	< 2	1.33	< 0.5	12	201	91
107371	205	226	< 5	18	0.4	210	< 0.2	4.99	890	7.5	< 2	0.53	6.5	18	184	77
107400	205	226	< 5	444	3.6	410	4.0	6.24	180	1.5	8	1.22	20.0	9	139	188
107401	205	226	20	50	6.2	1120	1.4	5.44	140	1.0	< 2	1.09	18.0	8	71	103
107402	205	226	< 5	28	2.0	180	0.8	7.22	190	1.5	4	1.84	7.0	7	95	88
107403	205	226	< 5	354	2.2	1690	2.6	4.09	320	< 0.5	20	2.68	101.5	8	204	177
107404	205	226	< 5	2	0.8	260	0.4	8.14	1460	1.5	2	1.47	12.0	8	93	306
107405	205	226	< 5	22	7.4	50	< 0.2	4.59	300	< 0.5	6	2.59	2.0	8	171	344
107406	205	226	< 5	1	1.4	30	< 0.2	8.06	480	1.5	2	1.10	< 0.5	8	111	87
107407	205	226	< 5	1	0.6	20	< 0.2	7.54	1180	1.0	6	0.68	< 0.5	9	71	874
107408	205	226	< 5	2	0.6	< 10	< 0.2	6.16	1070	1.0	6	0.24	< 0.5	10	97	25
107409	205	226	< 5	1	2.2	20	< 0.2	6.35	1070	0.5	10	0.64	2.0	11	97	12
107410	205	226	< 5	4	2.6	180	< 0.2	6.57	1550	1.5	6	0.76	0.5	9	237	17
107411	205	226	< 5	56	15.5	740	2.6	6.17	170	2.5	< 2	2.42	11.0	5	378	46
107412	205	226	5	28	8.6	430	1.2	6.45	200	2.5	< 2	0.99	6.0	4	176	20
107413	205	226	< 5	2	0.6	20	< 0.2	7.39	750	2.5	< 2	1.04	< 0.5	5	231	6
107414	205	226	< 5	2	0.6	10	< 0.2	6.64	2450	2.0	< 2	1.18	< 0.5	4	184	11
107415	205	226	< 5	1	0.4	< 10	< 0.2	6.93	2570	2.0	< 2	0.82	< 0.5	5	150	4
107416	205	226	< 5	1	0.2	10	< 0.2	6.69	2340	2.0	< 2	0.80	< 0.5	4	89	4

CERTIFICATION:

Terry Tucker



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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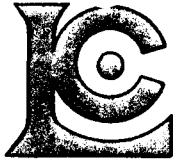
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Project : WOLVERINE
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CERTIFICATE OF ANALYSIS A9622430

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107349	205 226	2.16	1.97	0.52	100	4	0.16	21	240	2	196	0.16	93	< 10	32
107350	205 226	1.71	0.55	0.24	2050	8	0.01	12	440	24	323	0.05	69	10	112
107351	205 226	4.41	0.20	0.11	1315	6	0.01	7	1930	200	76	0.01	103	30	852
107352	205 226	5.97	0.35	0.19	2130	13	0.01	14	1340	188	137	0.03	156	30	1300
107353	205 226	7.30	0.13	0.11	1410	1	0.01	8	600	< 2	81	0.01	69	40	400
107354	205 226	>25.0	0.16	0.09	355	6	0.02	9	190	152	12	0.01	104	90	120
107355	205 226	4.93	0.18	0.11	1305	6	0.01	5	1920	260	74	0.01	103	30	842
107356	205 226	5.91	0.35	0.19	2180	14	0.01	14	1370	320	137	0.03	158	40	1260
107357	205 226	7.19	0.11	0.10	1400	4	0.01	8	600	196	80	0.01	67	50	368
107358	205 226	>25.0	0.12	0.08	335	7	0.01	9	150	450	10	< 0.01	102	100	106
107359	205 226	4.53	0.16	0.10	1340	6	0.01	7	1980	160	75	0.01	101	30	824
107360	205 226	10.70	0.06	0.04	170	6	< 0.01	11	200	720	8	< 0.01	64	30	28
107361	205 226	6.79	0.08	0.09	1435	5	0.01	9	930	300	128	0.01	67	40	164
107362	205 226	2.11	0.97	0.22	120	7	0.07	17	630	62	48	0.06	114	< 10	438
107363	205 226	1.47	1.33	0.32	305	4	0.15	21	350	12	100	0.11	125	< 10	178
107364	205 226	1.47	1.08	0.30	1465	5	0.10	17	550	30	521	0.11	132	10	46
107365	205 226	1.19	0.70	0.18	345	6	0.04	11	530	18	223	0.08	134	< 10	40
107366	205 226	8.78	0.72	0.29	760	2	0.04	9	640	32	150	0.09	146	40	20
107367	205 226	7.81	1.02	0.28	785	1	0.06	13	540	40	147	0.09	117	30	28
107368	205 226	3.16	1.48	0.43	1250	2	0.05	43	790	110	208	0.16	151	10	800
107369	205 226	14.55	0.90	1.07	7770	1	0.06	35	1030	40	259	0.10	125	80	156
107370	205 226	3.02	1.66	0.41	1285	3	0.09	32	540	60	43	0.18	163	10	112
107371	205 226	1.77	2.53	0.56	965	1	0.14	35	460	22	29	0.24	183	< 10	1140
107400	205 226	4.86	3.02	1.51	655	16	0.22	30	1050	570	54	0.17	459	20	2050
107401	205 226	4.78	2.64	0.55	230	6	0.21	11	1580	168	49	0.11	92	10	1730
107402	205 226	3.97	3.06	1.46	750	3	0.28	5	630	52	63	0.13	36	10	662
107403	205 226	4.87	0.97	2.24	1225	23	0.08	68	880	160	56	0.09	647	30	7720
107404	205 226	4.16	2.98	2.21	775	5	0.32	7	1040	16	73	0.20	51	20	1060
107405	205 226	4.43	1.30	1.84	880	13	0.11	37	840	6	54	0.10	318	20	276
107406	205 226	3.81	3.04	1.89	620	1	0.32	5	1060	4	65	0.22	35	10	116
107407	205 226	5.03	2.31	2.54	700	3	0.28	4	990	8	48	0.20	44	20	164
107408	205 226	3.56	2.18	1.66	305	1	0.22	6	770	< 2	34	0.09	34	10	72
107409	205 226	4.66	2.01	1.60	630	3	0.20	7	830	14	42	0.15	42	10	246
107410	205 226	3.52	2.55	1.02	340	3	0.24	10	810	10	55	0.15	51	10	178
107411	205 226	2.46	2.84	0.56	365	20	0.18	46	1120	82	102	0.15	385	10	764
107412	205 226	1.84	3.06	0.55	110	9	0.24	22	990	50	80	0.13	187	10	422
107413	205 226	1.76	2.90	0.77	100	3	0.88	5	730	20	83	0.15	27	10	56
107414	205 226	1.36	1.85	0.48	150	2	2.26	2	670	18	113	0.14	29	< 10	48
107415	205 226	1.41	1.82	0.44	165	1	2.70	3	670	18	122	0.15	21	< 10	48
107416	205 226	1.34	1.93	0.48	220	1	2.47	3	650	18	120	0.15	19	< 10	46

CERTIFICATION: *[Signature]*



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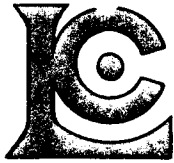
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 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622430

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107417	205 226	< 5	1	0.4	10	< 0.2	6.92	1280	2.0	< 2	0.83	< 0.5	4	99	6
107418	205 226	< 5	1	0.4	< 10	< 0.2	6.72	1510	2.0	< 2	0.79	< 0.5	4	82	6
107419	205 226	< 5	2	0.4	< 10	< 0.2	7.05	1650	2.0	6	1.07	< 0.5	5	101	6
107420	205 226	< 5	2	0.4	< 10	< 0.2	6.68	1460	2.0	< 2	1.04	< 0.5	4	114	6
107421	205 226	< 5	2	0.4	10	< 0.2	7.13	1820	2.5	< 2	1.46	< 0.5	4	75	7
107422	205 226	< 5	1	0.6	10	< 0.2	6.99	400	2.0	< 2	2.02	< 0.5	4	201	8
107423	205 226	< 5	1	0.8	10	< 0.2	6.76	1910	2.0	< 2	1.53	0.5	3	266	10
107424	205 226	< 5	1	0.8	10	< 0.2	6.64	2010	2.0	2	1.84	0.5	4	175	7
107425	205 226	< 5	1	0.8	10	< 0.2	6.94	560	2.0	< 2	1.87	< 0.5	4	96	6
107426	205 226	< 5	2	2.2	60	< 0.2	6.26	420	1.5	< 2	1.40	0.5	4	136	10
107427	205 226	< 5	1	1.6	70	0.4	6.13	1700	1.0	< 2	0.80	0.5	3	185	7
107428	205 226	< 5	4	2.4	2940	1.0	5.09	1530	0.5	< 2	0.73	39.5	3	189	13
107429	205 226	< 5	2	5.8	3790	4.0	6.11	1320	1.0	< 2	0.41	90.5	4	203	16
107430	205 226	< 5	8	3.2	870	1.8	4.46	1100	0.5	< 2	0.36	18.5	3	229	10
107431	205 226	< 5	8	4.2	690	2.2	6.39	1570	1.5	2	0.24	28.0	6	177	8
107432	205 226	< 5	2	4.8	440	3.0	6.56	1520	1.5	< 2	1.20	23.0	4	181	6
107433	205 226	< 5	2	1.0	< 10	< 0.2	6.98	1830	1.5	< 2	1.19	1.0	4	158	3
107434	205 226	< 5	1	1.2	10	< 0.2	6.77	1970	1.5	< 2	1.21	0.5	4	133	3
107435	205 226	< 5	1	1.2	10	< 0.2	6.71	1840	1.5	< 2	0.92	0.5	4	115	2
107436	205 226	< 5	2	1.6	< 10	< 0.2	7.27	1940	1.5	< 2	1.14	0.5	4	121	3
107437	205 226	< 5	2	1.8	10	< 0.2	6.68	1400	1.5	< 2	0.86	< 0.5	3	128	2
107438	205 226	< 5	2	1.8	250	0.8	6.66	930	1.0	2	0.27	5.5	4	120	3
107439	205 226	< 5	2	2.8	790	1.8	6.50	1010	1.0	< 2	0.27	17.5	4	130	4
107440	205 226	< 5	1	1.6	230	1.4	6.62	1390	1.0	< 2	0.67	6.0	4	121	3
107441	205 226	< 5	1	3.0	480	3.0	6.65	370	1.0	< 2	1.30	10.5	3	160	4
107442	205 226	< 5	4	3.6	2600	2.6	6.35	610	1.0	< 2	1.19	52.0	4	140	7
107443	205 226	< 5	2	2.0	360	1.0	6.78	1830	1.5	< 2	1.34	7.5	4	122	6

CERTIFICATION: *[Handwritten Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

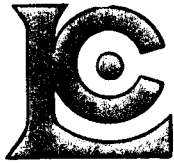
Page Number : 2-B
 Total Pages : 2
 Certificate Date: 09-JUL-96
 Invoice No. : 19622430
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622430

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107417	205 226	1.47	2.17	0.53	205	7	2.35	6	620	20	126	0.14	23	< 10	46
107418	205 226	1.46	2.01	0.50	180	2	2.36	4	610	16	107	0.15	23	< 10	38
107419	205 226	1.29	2.37	0.59	195	1	2.04	7	670	16	114	0.15	25	< 10	42
107420	205 226	1.41	2.62	0.72	160	3	1.19	6	630	20	90	0.14	23	< 10	40
107421	205 226	1.43	3.30	0.65	155	3	0.27	5	660	20	90	0.16	25	< 10	48
107422	205 226	1.62	3.48	0.57	160	3	0.17	6	700	28	123	0.13	28	< 10	64
107423	205 226	1.51	3.23	0.54	110	3	0.17	9	690	16	84	0.15	46	< 10	80
107424	205 226	1.64	3.14	0.57	120	1	0.16	8	490	14	55	0.16	26	< 10	30
107425	205 226	1.62	3.48	0.64	150	2	0.16	4	700	14	60	0.17	23	< 10	42
107426	205 226	1.86	3.00	0.31	315	3	0.15	9	690	30	108	0.15	23	< 10	150
107427	205 226	1.44	2.61	0.25	120	3	0.21	8	670	136	123	0.14	23	< 10	106
107428	205 226	0.99	2.02	0.22	85	3	0.12	8	520	296	103	0.12	45	< 10	7730
107429	205 226	1.77	2.55	0.18	75	1	0.17	8	750	1560	69	0.14	23	< 10	9370
107430	205 226	1.11	2.22	0.10	65	3	0.13	9	570	490	87	0.10	21	< 10	2240
107431	205 226	1.79	3.79	0.17	70	2	0.22	7	530	300	83	0.14	14	< 10	2050
107432	205 226	1.59	3.93	0.12	260	2	0.22	6	570	710	213	0.14	12	< 10	1340
107433	205 226	1.15	4.70	0.12	210	< 1	0.26	4	640	24	189	0.14	13	< 10	36
107434	205 226	0.88	4.94	0.12	200	< 1	0.24	3	630	20	196	0.13	12	< 10	20
107435	205 226	0.96	4.87	0.10	165	1	0.27	1	620	20	149	0.13	12	< 10	28
107436	205 226	0.91	5.26	0.10	230	1	0.29	3	660	16	165	0.14	14	< 10	20
107437	205 226	1.28	3.97	0.09	190	1	0.24	1	570	22	134	0.14	10	< 10	28
107438	205 226	2.20	3.24	0.08	290	1	0.22	3	540	86	49	0.15	11	< 10	638
107439	205 226	2.26	3.30	0.07	235	1	0.21	7	560	350	50	0.15	10	< 10	1940
107440	205 226	1.78	3.39	0.06	360	1	0.22	4	560	236	91	0.15	10	< 10	778
107441	205 226	2.21	3.19	0.09	415	1	0.22	6	510	430	137	0.15	11	< 10	1110
107442	205 226	2.05	2.61	0.08	285	2	0.50	5	540	384	147	0.14	11	< 10	6220
107443	205 226	1.46	3.14	0.49	220	1	0.87	6	610	240	192	0.16	19	< 10	764

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 2 4 3 1

BILLING INFORMATION

Date: 11-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

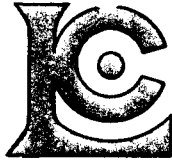
Billing: For analysis performed on
Certificate A9622431

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
31	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1080.35
				Total Cost \$ 1080.35
				Client Discount (25%) \$ <u>-270.09</u>
				Net Cost \$ 810.26
				(Reg# R100938885) GST \$ <u>56.72</u>
				TOTAL PAYABLE (CDN) \$ 866.98



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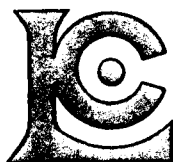
QC Pa: 1-A
 Tot QC Tg: 1
 Date: 11-JUL-96
 Invoice #: I9622431
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622431

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CSB-93 CHEMEX MEAN	Std1	1	965 904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT G90-TOT CHEMEX MEAN	Std1 Std2	1 1	----	----	----	----	----	6.83 7.18 7.07	770 820 766	1.5 1.5 0.9	4 10 5	2.13 2.28 2.12	1.5 1.5 0.9	19 21 19	140 146 141	222 236 221
GEO-90 GEO-90 CHEMEX MEAN	Std1 Std2	1 1	----	60 62 61	8.4 8.0 7.7	190 180 189	2.6 2.6 3.0	----	----	----	----	----	----	----	----	----
TVB-95 CHEMEX MEAN	Std2	1	435 448	----	----	----	----	----	----	----	----	----	----	----	----	----
107501	Dupl Origl	-01 -01	10 15	2 2	1.2 1.2	----- 10	< 0.2 < 0.2	2.38 2.41	250 240	0.5 0.5	< 2 < 2	2.64 2.72	< 0.5 < 0.5	4 5	224 230	32 39

CERTIFICATION: _____



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To: WESTMIN RESOURCES LTD.
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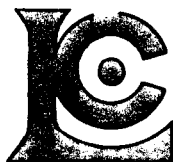
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 Tot QC Pg. 1
 Date: 11-JUL-96
 Invoice #: 19622431
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622431

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CSB-93 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G90-TOT	Std1	1	3.83	1.77	1.01	985	7	1.75	74	1050	-----	318	0.33	102	10	238
G90-TOT	Std2	1	4.08	1.91	1.06	1065	7	1.88	86	1130	-----	341	0.36	110	10	244
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	192	-----	-----	-----	-----	-----
GEO-90	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	180	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	195	-----	-----	-----	-----	-----
TVB-95	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
107501	Dupl	1-01	13.45	0.35	0.51	715	1	0.06	14	860	< 2	287	0.12	109	40	40
	Orig	1-01	13.75	0.33	0.52	740	1	0.06	11	900	< 2	295	0.12	112	30	68

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9622431

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622431

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

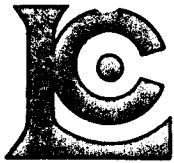
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 11-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	31	Geochem ring to approx 150 mesh
226	31	0-3 Kg crush and split
3202	31	Rock - save entire reject
285	31	ICP - HF digestion charge
287	31	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	31	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	31	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	31	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	31	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	31	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	31	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	31	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	31	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	31	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	31	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	31	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	31	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	31	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	31	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	31	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	31	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	31	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	31	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	31	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	31	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	31	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	31	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	31	Pb ppm: 24 element, rock & core	AAS	2	10000
582	31	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	31	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	31	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	31	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	31	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Company: WESTMIN RESOURCES LTD.
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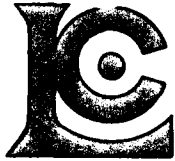
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 Certificate Date: 11-JUL-96
 Invoice No.: I9622431
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622431

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107501	205 226	15	2	1.2	10	< 0.2	2.41	240	0.5	< 2	2.72	< 0.5	5	230	39
107502	205 226	< 5	16	3.8	50	< 0.2	0.72	40	3.0	< 2	19.00	1.0	2	76	24
107503	205 226	< 5	12	3.2	10	< 0.2	0.50	460	2.5	2	24.1	0.5	5	57	31
107504	205 226	< 5	16	4.6	70	< 0.2	0.38	370	2.5	10	20.6	1.0	4	70	19
107505	205 226	15	12	3.8	210	< 0.2	1.91	320	3.5	2	2.51	2.0	5	177	50
107506	205 226	< 5	2	7.2	460	< 0.2	2.60	280	4.0	6	4.12	5.5	8	175	97
107507	205 226	10	20	5.0	110	< 0.2	2.80	260	4.0	< 2	0.94	4.0	10	210	63
107508	205 226	35	10	9.8	500	0.8	1.62	190	1.5	6	11.20	9.0	13	183	57
107509	205 226	55	46	5.4	150	0.6	1.71	170	2.0	6	12.50	9.5	7	159	60
107510	205 226	10	4	2.6	80	0.2	5.13	290	2.5	6	5.95	2.0	6	219	39
107511	205 226	< 5	1	2.2	50	< 0.2	7.77	820	2.5	< 2	2.03	1.5	7	124	10
107512	205 226	< 5	2	7.2	60	< 0.2	7.41	1120	2.5	< 2	1.65	4.0	5	152	21
107513	205 226	< 5	1	1.2	10	< 0.2	7.04	2870	1.5	< 2	1.03	0.5	3	150	8
107514	205 226	< 5	1	5.8	20	< 0.2	6.59	2660	1.5	< 2	0.67	0.5	10	274	34
107515	205 226	< 5	36	10.0	320	< 0.2	6.61	810	2.5	< 2	0.72	3.5	6	170	23
107521	205 226	< 5	12	8.8	90	< 0.2	8.12	2660	2.0	< 2	1.26	1.5	5	171	18
107522	205 226	< 5	6	7.2	< 10	< 0.2	7.08	1860	2.0	6	0.43	< 0.5	4	133	23
107523	205 226	< 5	6	16.5	190	< 0.2	6.96	1750	2.0	8	0.85	4.0	4	124	68
107524	205 226	< 5	6	49	270	< 0.2	6.64	1540	2.0	2	1.23	5.0	4	93	91
107525	205 226	< 5	8	11.0	90	< 0.2	6.32	1460	2.0	< 2	2.44	2.0	4	96	39
107526	205 226	< 5	6	4.0	490	< 0.2	7.08	1700	2.0	6	2.48	9.0	5	96	79
107527	205 226	< 5	4	3.0	30	< 0.2	6.99	1810	2.5	6	2.27	0.5	5	152	14
107528	205 226	< 5	2	2.8	30	< 0.2	6.54	1650	2.0	4	2.64	2.0	4	67	29
107529	205 226	< 5	12	5.8	340	< 0.2	6.28	630	2.0	4	3.22	4.5	5	131	51
107530	205 226	< 5	48	5.8	180	2.8	7.43	390	4.0	< 2	5.32	2.5	5	110	67
107531	205 226	< 5	12	2.0	140	1.2	7.52	2520	2.0	4	7.05	5.5	6	83	36
107532	205 226	< 5	16	7.0	320	1.4	7.15	570	3.0	< 2	2.07	3.0	5	102	55
107533	205 226	< 5	12	6.0	270	1.6	7.09	1370	3.0	< 2	2.51	2.5	5	146	43
107534	205 226	< 5	36	15.5	180	1.6	7.57	420	3.0	< 2	2.42	1.5	5	116	40
107535	205 226	< 5	22	6.0	110	1.4	8.18	620	2.5	< 2	2.49	0.5	5	159	20
107536	205 226	< 5	16	4.0	170	1.0	6.68	500	2.0	< 2	2.07	0.5	4	85	8

CERTIFICATION: John B. Baker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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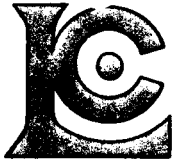
Page Number : 1-B
 Total Pages : 1
 Certificate Date: 11-JUL-96
 Invoice No. : 19622431
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622431

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107501	205 226	13.75	0.33	0.52	740	1	0.06	11	900	< 2	295	0.12	112	30	68
107502	205 226	4.57	0.26	0.16	1455	10	< 0.01	5	920	520	138	0.03	93	< 10	88
107503	205 226	5.31	0.08	0.15	1790	10	0.01	8	2650	690	148	0.02	117	20	54
107504	205 226	3.30	0.07	0.11	1530	10	< 0.01	5	2620	360	184	0.01	117	10	268
107505	205 226	3.67	0.81	0.20	225	12	0.03	19	730	324	34	0.07	114	< 10	848
107506	205 226	2.88	1.06	0.44	925	1	0.05	44	370	152	103	0.11	139	< 10	3170
107507	205 226	3.07	0.89	0.37	210	5	0.06	38	1500	96	34	0.11	177	10	752
107508	205 226	9.41	0.47	0.49	1970	3	0.03	28	800	970	374	0.04	115	30	1720
107509	205 226	7.27	0.52	0.46	1900	3	0.02	21	1110	320	483	0.04	140	30	2290
107510	205 226	3.06	2.47	0.65	880	5	0.10	15	750	106	214	0.13	70	10	354
107511	205 226	2.59	3.25	0.93	395	< 1	0.74	7	830	28	83	0.24	31	10	148
107512	205 226	2.08	3.76	0.81	405	12	0.14	18	360	104	75	0.16	84	< 10	434
107513	205 226	1.72	3.25	0.69	395	2	0.15	4	500	22	45	0.17	22	< 10	92
107514	205 226	1.75	2.90	0.66	250	2	0.12	11	450	42	46	0.17	20	< 10	86
107515	205 226	2.38	3.00	0.74	215	7	0.15	15	440	56	31	0.16	86	10	354
107521	205 226	2.73	2.58	4.39	430	3	0.37	5	390	50	47	0.15	28	10	252
107522	205 226	1.91	2.65	2.74	210	5	0.19	5	300	56	24	0.14	19	< 10	94
107523	205 226	1.68	2.75	2.32	230	3	0.18	4	300	206	30	0.14	18	< 10	566
107524	205 226	1.53	2.62	2.48	260	3	0.19	2	270	388	33	0.12	16	< 10	810
107525	205 226	1.33	2.70	1.69	280	3	0.18	3	300	56	55	0.13	17	< 10	250
107526	205 226	1.83	3.07	1.40	335	1	0.22	5	290	174	55	0.14	17	< 10	1165
107527	205 226	1.80	3.11	1.98	395	3	0.19	4	300	56	50	0.16	18	10	114
107528	205 226	1.30	3.55	1.10	350	2	0.14	2	300	46	63	0.16	14	< 10	220
107529	205 226	1.70	3.47	1.14	440	3	0.13	3	280	40	102	0.15	15	< 10	508
107530	205 226	1.76	4.00	1.02	670	1	0.17	3	520	41	236	0.19	22	< 10	236
107531	205 226	2.16	4.19	0.99	965	2	0.19	4	360	166	252	0.22	20	< 10	590
107532	205 226	1.21	3.78	0.65	325	3	0.15	3	350	156	93	0.20	28	< 10	316
107533	205 226	1.06	3.72	0.64	355	3	0.15	6	320	158	117	0.20	25	< 10	254
107534	205 226	1.87	3.98	0.74	315	3	0.16	4	350	58	104	0.22	21	< 10	106
107535	205 226	1.87	3.98	0.97	390	3	0.21	6	380	32	101	0.23	25	< 10	44
107536	205 226	1.27	3.46	0.55	335	3	0.15	3	300	58	116	0.18	15	< 10	68

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 2 4 3 2

BILLING INFORMATION

Date: 9-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

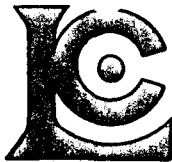
Billing: For analysis performed on
Certificate A9622432

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
47	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1637.95
Total Cost \$				1637.95
Client Discount (25%) \$				-409.49
Net Cost \$				1228.46
(Reg# R100938885) GST \$				85.99
TOTAL PAYABLE (CDN) \$				1314.45



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

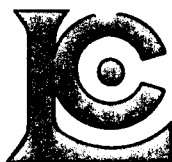
QC Pa. 1-A
 Tot QC Pg. 1
 Date: 09-JUL-96
 Invoice #: 19622432
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622432

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	85 81	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93 CHEMEX MEAN	Std1	2	970 904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT G90-TOT G90-TOT CHEMEX MEAN	Std1 Std2 Std1	1 1 2	----- ----- -----	----- ----- -----	----- ----- -----	----- ----- -----	----- ----- -----	6.82 7.00 6.90 7.07	780 790 770 766	1.5 1.5 1.5 0.9	8 10 6 5	2.10 2.18 2.13 2.12	0.5 1.5 1.5 0.9	19 19 19 19	141 145 141 141	219 226 227 221
GEO-90 GEO-90 GEO-90 CHEMEX MEAN	Std1 Std2 Std1	1 1 2	----- ----- -----	64 62 62 61	8.0 7.8 8.0 7.7	210 190 190 189	2.8 2.8 ----- 3.0	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----	----- ----- ----- -----
NG-94 CHEMEX MEAN	Std2	1	330 334	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SIO2-3 CHEMEX MEAN	Blnk	1	----- -----	----- -----	----- -----	< 10 19	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SIO2-G2 CHEMEX MEAN	Blnk	1	----- -----	2 2	0.2 < 0.2	----- -----	< 0.2 < 0.2	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SIO2-T3 CHEMEX MEAN	Blnk	1	----- -----	----- -----	----- -----	----- -----	----- -----	0.31 0.24	30 13	< 0.5 < 0.5	< 2 < 2	0.04 0.01	< 0.5 < 0.5	< 1 < 1	4 5	3 2
104912	Dupl Origl	-01 -01	< 5 < 5	2 2	1.6 1.6	10 20	< 0.2 < 0.2	2.58 2.59	7200 6870	0.5 < 0.5	6 10	0.36 0.36	< 0.5 < 0.5	6 7	174 177	34 33

CERTIFICATION: Hart Buchler



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 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

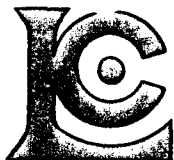
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Paq: 1-B
 Tot QC Pg: 1
 Date: 09-JUL-96
 Invoice #: 19622432
 P.O. #: 6406
 GPW

QC DATA OF CERTIFICATE A9622432

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93 CHEMEX MEAN	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.83	1.72	0.98	1000	7	1.78	76	1050	----	316	0.34	100	10	232
G90-TOT	Std2	1	3.98	1.78	1.01	1020	7	1.84	76	1090	----	326	0.35	104	10	236
G90-TOT	Std1	2	3.91	1.77	0.99	1015	6	1.82	73	1090	----	320	0.34	101	10	248
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	224	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94 CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2 < 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.08 0.05	0.05 0.03	0.01 < 0.01	10 20	< 1 < 1	0.02 < 0.01	1 < 1	190 207	----	175 178	0.02 < 0.01	3 2	< 10 < 10	2 < 2
104912	Dupl-01 Origl-01		5.13 5.15	0.34 0.36	0.74 0.75	640 640	4 4	0.05 0.04	17 17	270 250	< 2 < 2	114 112	0.15 0.15	100 101	10 < 10	24 26

CERTIFICATION: *Hart Buchler*



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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o: WESTMIN RESOURCES LTD.
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A9622432

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622432

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

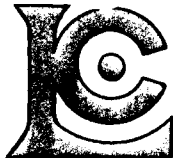
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 9-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	47	Geochem ring to approx 150 mesh
226	47	0-3 Kg crush and split
3202	47	Rock - save entire reject
285	47	ICP - HF digestion charge
287	47	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	47	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	47	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	47	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	47	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	47	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	47	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	47	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	47	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	47	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	47	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	47	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	47	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	47	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	47	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	47	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	47	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	47	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	47	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	47	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	47	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	47	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	47	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	47	Pb ppm: 24 element, rock & core	AAS	2	10000
582	47	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	47	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	47	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	47	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	47	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 2
 Certificate Date: 09-JUL-96
 Invoice No. : I9622432
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622432

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104912	205 226	< 5	2	1.6	20	< 0.2	2.59	6870	< 0.5	10	0.36	< 0.5	7	177	33
104913	205 226	< 5	1	0.6	< 10	< 0.2	1.38	8230	< 0.5	6	0.14	< 0.5	4	173	30
104914	205 226	< 5	1	0.4	10	< 0.2	1.72	5520	0.5	10	1.26	< 0.5	4	135	18
104915	205 226	< 5	1	0.6	710	0.4	1.77	280	0.5	10	1.68	< 0.5	6	157	41
104916	205 226	< 5	2	0.6	120	< 0.2	2.50	6780	1.0	2	2.15	< 0.5	8	232	53
104917	205 226	55	2	0.6	< 10	< 0.2	2.34	9690	1.5	12	0.54	< 0.5	6	219	26
104918	205 226	< 5	1	0.4	< 10	< 0.2	1.50	6730	3.0	14	0.35	< 0.5	6	174	69
104919	205 226	< 5	1	1.4	30	< 0.2	1.88	3330	3.0	10	0.49	< 0.5	5	203	51
104920	205 226	< 5	4	1.0	50	0.2	2.07	8170	0.5	2	0.09	< 0.5	6	296	61
104921	205 226	< 5	2	0.8	20	1.4	2.91	6540	0.5	6	0.17	< 0.5	9	206	75
104922	205 226	< 5	1	0.6	30	< 0.2	2.96	5190	0.5	2	0.33	< 0.5	12	167	104
104923	205 226	< 5	2	0.8	20	< 0.2	3.22	990	4.5	8	2.70	< 0.5	8	164	23
104924	205 226	< 5	2	0.4	140	< 0.2	3.26	1280	2.5	< 2	0.11	< 0.5	8	94	49
104925	205 226	20	24	3.2	210	< 0.2	1.40	130	3.5	12	6.31	1.5	20	144	48
104926	205 226	< 5	6	1.0	140	1.0	1.68	200	2.0	10	7.14	2.5	10	220	73
104927	205 226	55	12	5.4	720	0.2	0.70	70	1.5	< 2	17.20	6.5	3	54	32
104928	205 226	55	28	8.0	4300	0.8	1.01	70	1.5	2	14.05	32.5	4	62	32
104929	205 226	35	24	9.0	250	0.8	2.46	90	2.0	4	2.79	5.5	6	298	48
104930	205 226	< 5	4	1.2	10	< 0.2	6.40	3930	5.0	6	0.66	0.5	5	94	11
104931	205 226	< 5	2	2.0	30	< 0.2	1.71	390	< 0.5	2	0.71	< 0.5	3	205	64
104932	205 226	< 5	1	1.4	< 10	< 0.2	1.81	560	< 0.5	4	0.31	< 0.5	4	196	64
104933	205 226	< 5	1	2.0	30	< 0.2	1.49	310	< 0.5	2	0.72	< 0.5	4	223	50
104934	205 226	< 5	1	1.8	30	< 0.2	2.11	380	0.5	8	0.52	< 0.5	6	179	56
104935	205 226	10	4	5.8	50	< 0.2	3.55	130	0.5	6	0.36	< 0.5	11	190	69
104936	205 226	< 5	2	1.6	10	< 0.2	3.17	480	0.5	2	0.69	< 0.5	8	143	51
104937	205 226	5	4	2.4	30	< 0.2	2.72	570	0.5	6	1.46	< 0.5	7	152	45
104938	205 226	< 5	1	3.8	30	< 0.2	2.55	450	0.5	6	1.73	< 0.5	7	153	44
104939	205 226	< 5	6	1.8	80	< 0.2	1.95	350	0.5	4	1.16	< 0.5	7	262	56
104940	205 226	< 5	8	28	340	0.4	1.30	630	< 0.5	2	0.79	< 0.5	5	199	110
104941	205 226	< 5	8	13.0	180	< 0.2	1.51	400	0.5	< 2	0.71	< 0.5	5	112	53
104942	205 226	< 5	14	3.6	120	< 0.2	2.48	220	1.0	2	2.72	< 0.5	12	198	100
104943	205 226	< 5	4	2.8	60	0.6	6.44	310	3.0	8	1.08	1.5	7	108	51
104944	205 226	< 5	1	0.8	10	0.4	7.38	1910	3.0	8	1.04	< 0.5	5	132	9
104945	205 226	< 5	2	0.6	< 10	< 0.2	8.09	1930	2.5	8	1.68	< 0.5	7	133	7
104946	205 226	< 5	2	1.0	< 10	< 0.2	7.80	1600	2.5	8	2.64	0.5	7	135	8
104947	205 226	< 5	8	1.2	10	< 0.2	7.32	510	2.5	2	1.58	< 0.5	5	150	8
104948	205 226	< 5	14	1.6	120	1.2	7.44	250	3.0	6	1.01	4.5	5	132	84
104949	205 226	< 5	2	1.0	< 10	0.2	7.22	2280	2.5	6	1.41	0.5	5	164	7
104950	205 226	< 5	202	1.2	200	1.2	7.45	440	2.5	< 2	1.23	8.5	5	124	32
107472	205 226	< 5	88	1.8	60	0.4	7.45	1870	2.5	2	1.08	1.0	5	119	18

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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 VANCOUVER, BC
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Page No. : 1-B
 Total F : 2
 Certificate Date: 09-JUL-96
 Invoice No. : I9622432
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622432

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104912	205 226	5.15	0.36	0.75	640	4	0.04	17	250	< 2	112	0.15	101	< 10	26
104913	205 226	3.38	0.32	0.30	365	4	0.04	7	160	< 2	492	0.08	73	< 10	14
104914	205 226	11.30	0.25	0.35	820	4	0.05	10	350	< 2	502	0.09	100	10	34
104915	205 226	10.00	0.17	0.55	955	34	0.03	37	650	52	306	0.09	122	10	926
104916	205 226	2.34	0.89	0.35	585	8	0.04	32	180	4	242	0.12	86	< 10	268
104917	205 226	5.73	0.82	0.51	615	14	0.06	19	190	< 2	141	0.12	87	10	30
104918	205 226	11.40	0.12	0.34	560	9	0.03	12	170	< 2	368	0.09	100	10	22
104919	205 226	7.99	0.18	0.59	570	11	0.02	16	260	< 2	257	0.10	93	10	96
104920	205 226	1.30	0.65	0.34	195	5	0.04	52	120	< 2	61	0.11	72	< 10	76
104921	205 226	1.69	0.89	0.45	280	2	0.07	58	190	4	62	0.18	85	10	108
104922	205 226	1.84	0.74	0.35	235	< 1	0.06	77	160	4	32	0.17	91	< 10	116
104923	205 226	8.50	0.59	0.51	1350	4	0.10	41	350	< 2	148	0.16	81	10	360
104924	205 226	1.10	1.17	0.33	145	8	0.12	42	130	10	26	0.14	101	< 10	368
104925	205 226	10.15	0.52	0.22	2120	13	0.01	83	2280	430	80	0.05	143	30	2720
104926	205 226	2.88	0.63	0.37	1710	4	0.03	28	370	28	150	0.06	79	10	760
104927	205 226	6.26	0.31	0.24	2040	4	0.01	9	700	250	400	0.01	59	40	1430
104928	205 226	6.79	0.35	0.33	1770	6	0.01	11	740	284	256	0.03	81	40	8790
104929	205 226	3.35	0.27	0.27	475	6	0.03	46	860	100	38	0.08	151	10	968
104930	205 226	2.03	2.53	0.89	260	3	0.19	7	150	4	49	0.16	14	< 10	70
104931	205 226	1.03	0.44	0.29	190	< 1	0.02	25	170	2	40	0.07	48	< 10	48
104932	205 226	0.99	0.57	0.21	95	< 1	0.04	34	40	< 2	26	0.07	61	< 10	40
104933	205 226	1.10	0.43	0.21	305	1	0.03	48	150	2	58	0.06	59	< 10	64
104934	205 226	1.15	0.78	0.34	285	1	0.05	60	570	< 2	101	0.08	85	< 10	88
104935	205 226	3.71	1.41	0.37	205	1	0.10	49	120	< 2	38	0.18	94	10	48
104936	205 226	2.17	1.20	0.45	230	< 1	0.08	44	150	< 2	86	0.15	82	< 10	34
104937	205 226	1.43	1.16	0.34	285	< 1	0.10	36	120	< 2	158	0.12	79	< 10	50
104938	205 226	1.35	1.11	0.30	410	< 1	0.07	35	130	< 2	102	0.11	79	< 10	46
104939	205 226	1.18	0.66	0.21	255	< 1	0.05	44	90	< 2	112	0.09	90	< 10	94
104940	205 226	0.88	0.12	0.06	125	1	0.02	59	720	12	165	0.06	79	< 10	156
104941	205 226	0.70	0.47	0.13	140	< 1	0.02	36	90	< 2	70	0.06	80	< 10	46
104942	205 226	1.42	1.13	0.36	1975	2	0.03	47	320	22	149	0.10	96	< 10	104
104943	205 226	2.14	2.94	0.78	340	5	0.14	19	450	46	38	0.18	74	< 10	208
104944	205 226	1.60	3.27	0.88	210	3	0.72	6	520	28	51	0.19	20	< 10	62
104945	205 226	2.32	3.06	1.00	300	1	0.65	5	860	30	72	0.26	23	< 10	60
104946	205 226	2.37	3.12	1.21	435	4	0.19	6	980	26	56	0.28	33	< 10	58
104947	205 226	2.16	3.13	0.99	285	3	0.51	8	610	22	62	0.20	26	10	78
104948	205 226	2.39	3.55	1.03	190	10	0.17	17	580	134	26	0.20	85	< 10	530
104949	205 226	1.76	3.21	0.88	230	3	0.45	6	630	30	58	0.20	23	< 10	78
104950	205 226	2.45	3.49	0.87	220	4	0.59	7	680	136	61	0.23	39	10	860
107472	205 226	1.85	3.50	0.83	195	2	0.37	6	580	54	50	0.21	30	< 10	138

CERTIFICATION: Hawthorne



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 2-A
Total Pages: 2
Certificate Date: 09-JUL-96
Invoice No.: 19622432
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9622432

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107473	205 226	15	10	6.8	580	0.6	7.07	250	3.0	6	0.73	4.0	5	116	31
107474	205 226	30	30	6.2	1280	1.2	6.85	210	3.0	8	1.02	6.5	4	133	145
107475	205 226	25	34	4.2	870	0.6	6.91	270	3.0	6	1.12	4.0	4	113	71
107476	205 226	20	18	3.0	360	0.2	7.43	350	3.5	< 2	0.84	2.0	3	97	18
107477	205 226	115	62	29	9730	7.2	5.95	150	2.5	18	0.65	70.5	14	155	3120
107478	205 226	35	50	12.0	1800	1.8	6.60	520	3.0	4	1.32	8.5	3	111	59
107479	205 226	90	80	12.0	2660	4.2	7.25	900	1.5	2	0.47	18.5	6	138	34

CERTIFICATION: *Terry Tucker*



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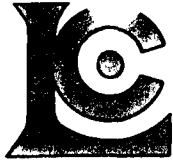
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number : 2-B
Total F : 2
Certificate Date: 09-JUL-96
Invoice No. : 19622432
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9622432

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107473	205 226	2.02	3.91	0.99	150	7	0.16	15	440	100	48	0.18	96	< 10	482
107474	205 226	1.96	3.81	1.03	220	10	0.16	16	470	130	52	0.17	91	< 10	840
107475	205 226	1.95	3.81	1.18	260	13	0.15	17	440	100	55	0.16	95	< 10	552
107476	205 226	1.77	4.07	1.06	175	7	0.17	11	390	54	43	0.19	59	< 10	234
107477	205 226	3.76	3.20	0.84	140	12	0.14	16	370	270	39	0.14	86	< 10	6400
107478	205 226	1.72	3.65	0.92	235	9	0.14	17	310	130	68	0.14	98	< 10	1285
107479	205 226	2.89	5.17	0.14	95	4	0.72	7	510	136	87	0.13	18	< 10	1980

CERTIFICATION: *Terry Tucker*



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VANCOUVER, BC
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INVOICE NUMBER

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BILLING INFORMATION

Date: 10-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

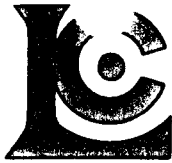
Billing: For analysis performed on
Certificate A9622433

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
28	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	975.80
				Total Cost \$ 975.80
				Client Discount (25%) \$ <u>-243.95</u>
				Net Cost \$ 731.85
				(Reg# R100938885) GST \$ <u>51.23</u>
				TOTAL PAYABLE (CDN) \$ 783.08



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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QC Pr: 1-A
 Tot Q: 1
 Date: 10-JUL-96
 Invoice #: I9622433
 P.O. #: 6406
 GPW

Project: WOLVERINE
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QC DATA OF CERTIFICATE A9622433

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CSB-93 CHEMEX MEAN	std1	1	890 904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.98	770	1.5	8	2.19	2.0	20	142	224
G90-TOT	std2	1	----	----	----	----	----	6.83	770	1.5	< 2	2.15	2.5	20	140	222
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	64	8.2	160	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	64	7.6	170	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
TVB-95	std2	1	445	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	448	----	----	----	----	----	----	----	----	----	----	----	----	----
107444	Dup1-01		< 5	16	0.6	10	< 0.2	7.04	890	2.0	< 2	1.11	0.5	6	75	7
	Orig1-01		< 5	14	0.6	< 10	< 0.2	6.87	2860	2.0	6	1.07	0.5	6	81	8

CERTIFICATION: Hart Buchler



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 PROJECT: WOLVERINE
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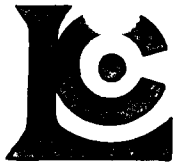
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 Tot QC: 1
 Date: 10-JUL-96
 Invoice #: 19622433
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622433

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CSB-93 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G90-TOT	Std1	1	3.96	1.72	1.02	1035	6	1.78	80	1110	-----	323	0.35	107	10	242
G90-TOT	Std2	1	3.92	1.69	1.00	1015	7	1.77	79	1080	-----	323	0.36	106	10	236
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	200	-----	-----	-----	-----	-----
GEO-90	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	186	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	195	-----	-----	-----	-----	-----
TVB-95	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
107444	Dupl-01		1.48	2.88	0.65	170	1	1.40	3	580	22	129	0.17	26	< 10	48
	Origl-01		1.44	2.83	0.63	165	2	1.41	1	570	24	128	0.17	26	< 10	50

CERTIFICATION: Hawthorne



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WESTMIN RESOURCES LTD.
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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622433

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 10-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	28	Geochem ring to approx 150 mesh
226	28	0-3 Kg crush and split
3202	28	Rock - save entire reject
285	28	ICP - HF digestion charge
287	28	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	28	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	28	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	28	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	28	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	28	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	28	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	28	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	28	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	28	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	28	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	28	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	28	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	28	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	28	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	28	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	28	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	28	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	28	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	28	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	28	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	28	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	28	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	28	Pb ppm: 24 element, rock & core	AAS	2	10000
582	28	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	28	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	28	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	28	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	28	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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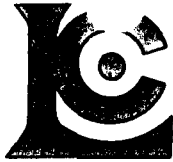
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CERTIFICATE OF ANALYSIS A9622433

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107444	205 226	< 5	14	0.6	< 10	< 0.2	6.87	2860	2.0	6	1.07	0.5	6	81	8
107445	205 226	< 5	2	0.6	< 10	0.8	7.39	2080	1.5	< 2	1.20	< 0.5	6	77	8
107446	205 226	< 5	4	0.6	< 10	< 0.2	6.66	2650	3.0	2	0.73	0.5	4	75	7
107447	205 226	< 5	2	0.8	< 10	< 0.2	6.52	750	1.5	< 2	1.33	0.5	5	173	7
107448	205 226	< 5	8	1.2	10	< 0.2	6.82	550	2.0	8	2.04	0.5	5	125	11
107449	205 226	< 5	28	2.4	120	< 0.2	5.56	130	1.5	2	2.21	2.0	6	119	19
107450	205 226	< 5	8	0.8	< 10	< 0.2	6.32	260	2.0	4	0.87	0.5	4	85	8
107451	205 226	< 5	2	0.4	< 10	< 0.2	6.61	1320	2.5	4	0.96	0.5	4	82	5
107452	205 226	< 5	8	0.4	10	< 0.2	6.54	1290	2.0	2	1.90	1.0	5	85	8
107453	205 226	< 5	12	0.4	< 10	< 0.2	6.90	1320	2.0	< 2	1.50	< 0.5	4	74	9
107454	205 226	< 5	4	0.2	< 10	< 0.2	6.50	1610	1.5	< 2	2.03	< 0.5	6	108	9
107455	205 226	< 5	1	0.4	10	< 0.2	6.47	2290	2.0	< 2	2.08	0.5	5	120	7
107456	205 226	< 5	2	0.2	< 10	< 0.2	6.55	1670	1.5	6	2.26	< 0.5	5	167	9
107457	205 226	< 5	4	0.2	< 10	< 0.2	6.65	1590	1.5	2	1.96	< 0.5	5	108	7
107458	205 226	< 5	1	0.6	10	< 0.2	6.01	370	1.5	< 2	2.67	1.0	5	105	9
107459	205 226	< 5	42	0.4	< 10	< 0.2	3.92	820	0.5	4	13.50	1.0	51	967	60
107460	205 226	35	2	0.2	< 10	< 0.2	6.59	1670	0.5	2	1.98	< 0.5	6	165	10
107461	205 226	< 5	2	1.2	10	< 0.2	6.12	330	0.5	< 2	2.29	1.5	6	155	14
107462	205 226	< 5	6	3.4	50	0.4	6.23	120	0.5	< 2	0.88	0.5	7	180	21
107463	205 226	10	34	20	140	3.4	4.23	80	1.5	< 2	3.04	5.0	8	270	124
107464	205 226	20	26	10.0	240	4.0	3.11	60	1.5	< 2	1.21	14.0	9	307	137
107465	205 226	15	1	5.2	90	< 0.2	4.81	70	1.5	4	2.43	2.0	11	178	75
107466	205 226	5	2	2.2	40	< 0.2	5.09	190	1.0	2	2.01	1.0	9	203	62
107467	205 226	< 5	2	1.0	20	< 0.2	7.34	920	1.5	< 2	0.71	1.5	12	170	61
107468	205 226	20	1	1.6	30	< 0.2	7.32	800	1.5	< 2	0.55	2.5	13	208	70
107469	205 226	< 5	1	0.8	10	< 0.2	7.85	510	1.5	< 2	0.52	2.0	14	224	68
107470	205 226	< 5	4	0.8	30	< 0.2	7.33	210	1.5	< 2	0.84	1.5	14	188	66
107471	205 226	10	2	1.6	10	< 0.2	8.58	170	1.5	< 2	0.31	1.0	14	215	82

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

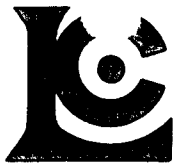
Page No. : 1-B
Total F : 1
Certificate Date: 10-JUL-96
Invoice No. : 19622433
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622433

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107444	205 226	1.44	2.83	0.63	165	2	1.41	1	570	24	128	0.17	26	< 10	50
107445	205 226	1.56	2.95	0.61	160	5	1.68	4	690	30	189	0.19	29	< 10	28
107446	205 226	1.17	3.53	0.67	120	2	0.16	3	870	20	85	0.11	42	< 10	54
107447	205 226	1.60	3.17	0.60	215	1	0.55	6	620	20	143	0.15	21	< 10	30
107448	205 226	1.65	3.76	0.32	330	< 1	0.21	7	840	22	240	0.15	52	< 10	44
107449	205 226	1.69	3.78	0.20	290	3	0.20	12	940	34	264	0.14	67	< 10	160
107450	205 226	1.74	4.31	0.22	500	1	0.20	7	940	22	134	0.11	38	< 10	52
107451	205 226	1.20	3.53	0.25	265	1	0.18	6	770	20	128	0.11	39	< 10	36
107452	205 226	1.43	3.20	0.47	245	< 1	0.13	4	750	32	80	0.12	38	< 10	60
107453	205 226	1.35	3.26	0.43	180	3	0.15	6	620	344	70	0.14	36	< 10	56
107454	205 226	1.49	3.13	0.26	200	< 1	0.13	8	820	24	192	0.17	31	< 10	40
107455	205 226	1.33	3.00	0.25	190	1	0.15	5	690	16	169	0.17	39	< 10	30
107456	205 226	1.48	2.95	0.27	245	< 1	0.14	6	780	18	179	0.16	37	< 10	14
107457	205 226	1.24	3.05	0.26	210	2	0.16	8	900	14	146	0.17	39	10	14
107458	205 226	1.70	2.80	0.44	305	1	0.13	23	600	28	106	0.16	81	< 10	96
107459	205 226	4.44	2.05	3.97	1580	< 1	0.13	517	1780	2	623	0.24	123	40	48
107460	205 226	1.29	2.80	0.41	275	2	0.14	18	770	20	93	0.20	48	< 10	22
107461	205 226	1.58	2.73	0.39	355	3	0.13	19	870	10	108	0.22	76	< 10	90
107462	205 226	1.78	2.54	0.33	205	3	0.18	26	960	26	34	0.23	112	< 10	82
107463	205 226	1.75	1.33	0.20	80	22	0.12	128	6700	32	545	0.16	770	10	406
107464	205 226	2.02	1.22	0.21	70	33	0.10	151	5410	120	444	0.11	1020	< 10	1105
107465	205 226	2.81	1.94	1.54	725	5	0.11	46	810	20	102	0.20	225	10	156
107466	205 226	2.85	2.01	1.26	380	4	0.12	42	1110	12	110	0.23	189	10	144
107467	205 226	3.01	2.95	0.96	270	2	0.18	41	670	10	89	0.34	193	< 10	174
107468	205 226	3.48	2.68	1.23	240	1	0.17	47	670	14	55	0.37	195	10	204
107469	205 226	3.39	2.97	1.21	190	3	0.19	49	780	6	61	0.42	217	10	174
107470	205 226	3.64	2.72	1.25	290	4	0.18	57	600	10	68	0.35	181	10	152
107471	205 226	3.90	3.25	1.32	235	3	0.20	57	720	4	61	0.33	212	10	140

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 2 4 7 9

BILLING INFORMATION

Date: 15-JUL-96
Project: WOLVERINE
P.O. No.: 6412
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9622479

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex ICP-T27 total digest ICP	0.00 20.00	20.00	40.00
Total Cost \$				40.00
Client Discount (25%) \$				<u>-10.00</u>
Net Cost \$				30.00
(Reg# R100938885) GST \$				<u>2.10</u>
TOTAL PAYABLE (CDN) \$				32.10

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9622479

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE

A9622479

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6412

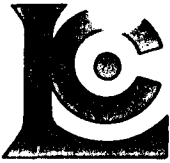
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 15-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex
285	2	ICP - HF digestion charge
287	2	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
13	2	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	2	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	2	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	2	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	2	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	2	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	2	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	2	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	2	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	2	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	2	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	2	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	2	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	2	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	2	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	2	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	2	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	2	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	2	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	2	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	2	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	2	Pb ppm: 24 element, rock & core	AAS	2	10000
582	2	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	2	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	2	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	2	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	2	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 15-JUL-96
 Invoice No. : 19622479
 P.O. Number : 6412
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE OF ANALYSIS A9622479

SAMPLE	PREP CODE	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
107116	244 285	16	0.8	70	< 0.2	1.06	80	1.5	< 2	4.12	< 0.5	14	143	39	22.3
107117	244 285	2	0.4	50	< 0.2	0.92	40	3.5	< 2	9.84	3.5	5	77	54	8.62

CERTIFICATION: Haiti Buchler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total : 1
Certificate Date: 15-JUL-96
Invoice No. : 19622479
P.O. Number : 6412
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE CC: ANDREW TURNER

CERTIFICATE OF ANALYSIS A9622479

SAMPLE	PREP CODE	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107116	244 285	0.39	0.13	3220	< 1	0.03	21	440	60	37	0.03	89	30	124
107117	244 285	0.35	0.25	1955	7	0.08	7	220	64	151	0.04	78	30	90

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

v: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 2 4 8 0**

BILLING INFORMATION

Date: 11-JUL-96
Project: WOLVERINE
P.O. No.: 6412
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

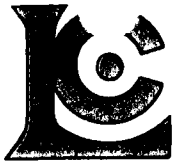
Billing: For analysis performed on
Certificate A9622480

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	244 - Pulp; prev. prepared at Chemex ICP-T27 total digest ICP	0.00 20.00	20.00	160.00
Total Cost \$				160.00
Client Discount (25%) \$				<u>-40.00</u>
Net Cost \$				120.00
(Reg# R100938885) GST \$				<u>8.40</u>
TOTAL PAYABLE (CDN) \$				128.40



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-A
 Tot Q 1
 Date: 11-JUL-96
 Invoice #: I9622480
 P.O. #: 6412
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9622480

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
G90-TOT CHEMEX MEAN	Std1	1	----	----	----	----	6.66 7.07	760 766	1.5 0.9	< 2 5	2.03 2.12	1.5 0.9	18 19	134 141	213 221	3.79 3.98
GEO-90 CHEMEX MEAN	Std1	1	62 61	8.2 7.7	190 189	2.6 3.0	----	----	----	----	----	----	----	----	----	----

CERTIFICATION *Hart Bichler*

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC Par 1-B
Tot QC 1
Date: 11-JUL-96
Invoice #: 19622480
P.O. #: 6412
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9622480

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G90-TOT CHEMEX MEAN	Std1 ---	1 ---	1.84 1.76	0.98 1.00	980 1015	7 7	1.77 1.74	72 76	1010 1120	----- -----	317 320	0.33 0.34	98 103	10 < 10	234 246
GEO-90 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	190 195	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: H. B. Richler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9622480

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE	A9622480
--------------------	-----------------

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6412

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-JUL-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	8	Pulp; prev. prepared at Chemex
285	8	ICP - HF digestion charge
287	8	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
13	8	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	8	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	8	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	8	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	8	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	8	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	8	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	8	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	8	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	8	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	8	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	8	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	8	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	8	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	8	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	8	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	8	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	8	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	8	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	8	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	8	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	8	Pb ppm: 24 element, rock & core	AAS	2	10000
582	8	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	8	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	8	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	8	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	8	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 11-JUL-96
 Invoice No. : 19622480
 P.O. Number : 6412
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9622480

SAMPLE	PREP CODE	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
107118	244 285	2	1.2	950	< 0.2	2.72	130	3.5	< 2	4.19	18.5	7	113	73	4.88
107119	244 285	6	3.0	380	0.4	3.45	110	3.5	< 2	2.57	5.5	16	119	100	12.90
107120	244 285	114	1.0	30	< 0.2	2.48	110	3.0	< 2	7.52	< 0.5	15	107	68	11.10
107121	244 285	8	1.0	80	< 0.2	2.33	120	5.0	4	11.20	4.0	9	86	45	7.35
107122	244 285	42	0.4	1250	< 0.2	2.00	90	5.5	2	10.20	17.0	10	87	60	7.39
107123	244 285	26	1.0	10	< 0.2	1.94	90	5.0	< 2	7.68	< 0.5	10	72	69	4.93
107124	244 285	28	2.4	50	< 0.2	2.61	110	6.5	< 2	2.22	2.0	12	187	48	2.80
107125	244 285	10	1.0	520	< 0.2	2.60	120	7.0	< 2	3.84	14.5	12	215	57	3.82

CERTIFICATION: Hart Bichler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page No. : 1-B
Total F : 1
Certificate Date: 11-JUL-96
Invoice No. : 19622480
P.O. Number : 6412
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

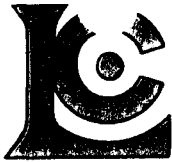
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9622480

SAMPLE	PREP CODE	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107118	244 285	0.88	0.66	3730	4	0.18	31	1100	36	264	0.12	166	10	4090
107119	244 285	0.41	1.14	3810	6	0.08	55	1200	152	56	0.13	172	10	1610
107120	244 285	0.87	0.94	9100	1	0.05	28	1180	100	226	0.12	179	20	54
107121	244 285	1.02	0.69	5510	< 1	0.03	26	1510	120	298	0.11	164	20	762
107122	244 285	1.03	0.53	4530	< 1	0.03	32	1230	144	321	0.08	172	10	3920
107123	244 285	1.01	0.34	2380	< 1	0.02	28	740	140	283	0.07	144	10	28
107124	244 285	1.38	0.30	600	< 1	0.05	26	690	110	88	0.10	157	< 10	180
107125	244 285	1.38	0.37	1485	3	0.07	33	730	144	135	0.11	184	10	2090

CERTIFICATION: Hart Schler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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BY WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 2 4 8 1

BILLING INFORMATION

Date: 11-JUL-96
Project: PUCK
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9622481

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
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North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex ICP-T27 total digest ICP	0.00 20.00	20.00	40.00
Total Cost \$				40.00
Client Discount (25%) \$				<u>-10.00</u>
Net Cost \$				30.00
(Reg# R100938885) GST \$				<u>2.10</u>
TOTAL PAYABLE (CDN) \$				32.10

COPY



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9622481

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622481

(GP W) - WESTMIN RESOURCES LTD.

Project: PUCK
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 11-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex
285	2	ICP - HF digestion charge
287	2	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
13	2	As ppm: HNO ₃ -aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	2	Sb ppm: HCl-KClO ₃ digest, extrac	AAS-BKGD CORR	0.2	1000
20	2	Hg ppb: HNO ₃ -HCl digestion	AAS-FLAMELESS	10	100000
578	2	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	2	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	2	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	2	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	2	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	2	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	2	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	2	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	2	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	2	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	2	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	2	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	2	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	2	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	2	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	2	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	2	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	2	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	2	Pb ppm: 24 element, rock & core	AAS	2	10000
582	2	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	2	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	2	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	2	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	2	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

Page Number : 1-A
Total Pages : 1
Certificate Date: 11-JUL-96
Invoice No. : I9622481
P.O. Number :
Account : GP W

Project : PUCK
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

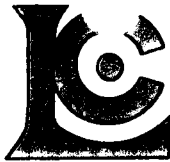
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9622481

SAMPLE	PREP CODE		As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
	107216	244	285	2	0.4	130	0.4	4.61	170	4.0	2	4.74	3.5	10	92	64
107217	244	285	4	0.6	320	< 0.2	2.47	130	7.0	2	6.51	8.0	14	152	60	4.60

CERTIFICATION: Hart Bichler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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Page Number : 1-B
 Total Pages : 1
 Certificate Date: 11-JUL-96
 Invoice No. : I9622481
 P.O. Number :
 Account : GP W

Project : PUCK
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9622481

SAMPLE	PREP CODE		K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
	107216 107217	244 244	285 285	2.29 1.14	0.56 0.51	2540 2680	1 1	0.10 0.05	29 34	1100 830	124 110	218 349	0.23 0.11	164 175	10 10

CERTIFICATION: *Terry Tucker*

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INVOICE NUMBER

I 9 6 2 2 4 8 2

BILLING INFORMATION

Date: 11-JUL-96
Project: PUCK
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9622482

Terms: Payment due on receipt of invoice
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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	244 - Pulp; prev. prepared at Chemex ICP-T27 total digest ICP	0.00 20.00	20.00	60.00
Total Cost \$				60.00
Client Discount (25%) \$				-15.00
Net Cost \$				45.00
(Reg# R100938885) GST \$				3.15
TOTAL PAYABLE (CDN) \$				48.15



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A9622482

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622482

(GP W) - WESTMIN RESOURCES LTD.

Project: PUCK
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	3	Pulp; prev. prepared at Chemex
285	3	ICP - HF digestion charge
287	3	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
13	3	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	3	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	3	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	3	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	3	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	3	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	3	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	3	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	3	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	3	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	3	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	3	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	3	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	3	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	3	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	3	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	3	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	3	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	3	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	3	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	3	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	3	Pb ppm: 24 element, rock & core	AAS	2	10000
582	3	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	3	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	3	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	3	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	3	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

Page No. : 1-A
Total F : 1
Certificate Date: 11-JUL-96
Invoice No. : 19622482
P.O. Number :
Account : GP W

Project : PUCK
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

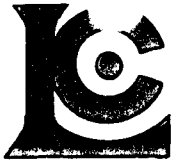
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9622482

SAMPLE	PREP CODE	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)
107218	244 285	24	6.0	10	< 0.2	1.26	80	2.0	< 2	9.77	< 0.5	8	96	36	14.70
107219	244 285	14	3.4	20	< 0.2	5.34	90	11.5	< 2	0.23	< 0.5	21	199	74	3.54
107220	244 285	28	4.0	10	0.4	1.40	80	1.5	< 2	8.65	< 0.5	9	186	49	10.65

CERTIFICATION: Hart Bickler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total Fees : 1
Certificate Date: 11-JUL-96
Invoice No. : I9622482
P.O. Number :
Account : GP W

Project : PUCK
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9622482

SAMPLE	PREP CODE	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107218	244 285	0.60	0.16	2280	< 1	0.07	12	500	100	258	0.04	93	40	28
107219	244 285	2.77	0.48	300	1	0.18	51	530	28	23	0.20	220	< 10	66
107220	244 285	0.68	0.17	2200	< 1	0.09	17	650	70	356	0.05	76	30	24

CERTIFICATION: *[Signature]*

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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INVOICE NUMBER

I 9 6 2 2 5 1 6

BILLING INFORMATION

Date: 9-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

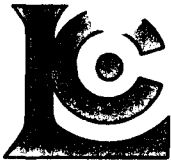
Billing: For analysis performed on
Certificate A9622516

Terms: Payment due on receipt of invoice
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charged on overdue accounts

Please Remit Payments to:

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North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
21	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	731.85
				Total Cost \$ 731.85
				Client Discount (25%) \$ -182.96
				Net Cost \$ 548.89
				(Reg# R100938885) GST \$ 38.42
				TOTAL PAYABLE (CDN) \$ 587.31



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa
 Tot QC
 Date: 09-JUL-96
 Invoice #: 19622516
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622516

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CKR-W CHEMEX MEAN	Std1	1	75 81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	7.18 7.07	850 766	1.5 0.9	2 5	2.24 2.12	1.5 0.9	21 19	142 141	228 221
GEO-90 CHEMEX MEAN	Std1	1	----	62 61	7.8 7.7	190 189	2.6 3.0	----	----	----	----	----	----	----	----	----
104951	Dupl-01 Origl-01		< 5 < 5	6 10	1.6 1.6	10 < 10	< 0.2 < 0.2	7.62 7.74	1590 1590	1.5 1.5	< 2 2	7.42 7.50	< 0.5 0.5	22 22	73 73	48 49

CERTIFICATION: Haut Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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 VANCOUVER, BC
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QC Pa
 Tot Q
 Date: 09-JUL-96
 Invoice #: 19622516
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622516

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	4.06 3.98	1.89 1.76	1.04 1.00	1045 1015	6 7	1.82 1.74	79 76	1120 1120	----- -----	327 320	0.35 0.34	106 103	10 < 10	254 246
GEO-90 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	210 195	----- -----	----- -----	----- -----	----- -----	----- -----
104951	Dup1-01 Orig1-01		6.24 6.29	1.58 1.63	1.80 1.84	1600 1615	2 < 1	0.57 0.59	21 23	2600 2670	10 6	531 539	1.43 1.50	250 256	40 40	48 46

CERTIFICATION: Hart Bickler



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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9622516**

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 9-JUL-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	21	Geochem ring to approx 150 mesh
226	21	0-3 Kg crush and split
3202	21	Rock - save entire reject
285	21	ICP - HF digestion charge
287	21	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	21	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	21	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	21	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	21	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	21	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	21	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	21	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	21	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	21	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	21	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	21	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	21	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	21	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	21	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	21	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	21	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	21	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	21	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	21	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	21	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	21	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	21	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	21	Pb ppm: 24 element, rock & core	AAS	2	10000
582	21	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	21	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	21	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	21	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	21	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
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Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page No : 1-A
 Total F : 1
 Certificate Date: 09-JUL-96
 Invoice No. : I9622516
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9622516

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104951	205 226	< 5	10	1.6	< 10	< 0.2	7.74	1590	1.5	< 2	7.50	0.5	22	73	49
104952	205 226	< 5	6	3.0	10	< 0.2	5.63	990	1.0	< 2	7.05	< 0.5	16	225	61
104953	205 226	< 5	18	2.0	10	< 0.2	7.98	1530	0.5	< 2	6.71	< 0.5	31	19	44
104954	205 226	< 5	10	5.6	50	< 0.2	3.74	480	1.5	< 2	1.82	2.0	13	183	53
104955	205 226	< 5	2	3.6	30	< 0.2	6.91	1300	2.0	4	1.23	1.0	7	125	10
104956	205 226	< 5	78	9.0	220	1.0	7.23	860	2.0	2	0.37	4.5	5	104	25
104957	205 226	< 5	6	4.4	270	< 0.2	7.90	660	3.0	2	1.40	1.5	6	142	15
107537	205 226	165	2	1.4	60	< 0.2	2.19	150	< 0.5	< 2	0.88	< 0.5	7	165	56
107538	205 226	< 5	10	1.2	10	< 0.2	0.79	280	< 0.5	< 2	4.19	< 0.5	4	182	23
107539	205 226	< 5	1	0.8	530	< 0.2	1.44	730	1.0	< 2	0.72	< 0.5	4	197	52
107540	205 226	< 5	1	0.2	70	< 0.2	1.95	990	2.0	< 2	0.18	< 0.5	5	153	53
107541	205 226	< 5	2	3.2	30	< 0.2	1.20	100	< 0.5	< 2	0.45	< 0.5	4	152	31
107542	205 226	< 5	1	0.6	720	< 0.2	1.80	460	2.5	< 2	2.80	< 0.5	5	132	50
107543	205 226	< 5	1	6.0	170	< 0.2	3.12	520	< 0.5	< 2	0.41	< 0.5	9	156	62
107544	205 226	30	2	4.2	140	< 0.2	2.02	250	< 0.5	< 2	0.14	< 0.5	5	226	32
107545	205 226	< 5	10	3.8	30	< 0.2	0.41	310	1.5	4	>25.0	< 0.5	5	70	18
107546	205 226	15	24	7.2	40	< 0.2	0.48	280	2.5	8	15.80	0.5	5	154	36
107547	205 226	< 5	10	3.2	10	< 0.2	0.49	250	2.0	2	24.7	0.5	5	38	17
107548	205 226	< 5	12	4.0	10	< 0.2	0.40	310	2.0	2	>25.0	0.5	5	35	22
107549	205 226	< 5	8	5.8	60	< 0.2	3.68	280	3.0	2	5.85	3.5	11	321	56
107550	205 226	< 5	2	1.4	20	< 0.2	6.61	1800	5.5	< 2	2.03	< 0.5	3	164	8

CERTIFICATION: _____



Chemex Labs Ltd.

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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-B
 Total : 1
 Certificate Date: 09-JUL-96
 Invoice No. : 19622516
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622516

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104951	205 226	6.29	1.63	1.84	1615	< 1	0.59	23	2670	6	539	1.50	256	40	46
104952	205 226	5.57	1.04	1.35	1470	< 1	0.73	28	2560	36	451	1.00	216	30	48
104953	205 226	5.43	1.10	1.63	1605	1	2.98	27	2500	8	413	1.55	257	30	60
104954	205 226	3.84	0.82	0.88	500	4	0.09	41	1190	52	91	0.31	131	10	328
104955	205 226	2.06	3.27	0.76	305	3	0.15	9	620	66	54	0.17	37	< 10	128
104956	205 226	2.11	3.57	0.77	180	10	0.16	12	410	100	30	0.17	80	< 10	590
104957	205 226	1.70	3.44	0.86	245	3	0.18	7	610	18	43	0.22	25	< 10	82
107537	205 226	15.40	0.04	0.49	655	11	0.01	12	240	< 2	107	0.12	99	10	126
107538	205 226	12.30	0.03	0.25	1990	3	< 0.01	3	240	< 2	260	0.04	61	30	24
107539	205 226	1.67	0.45	0.17	370	3	0.04	32	220	12	233	0.06	84	< 10	456
107540	205 226	1.07	0.76	0.21	100	1	0.07	30	100	10	258	0.07	98	< 10	82
107541	205 226	18.75	0.02	0.58	465	12	0.01	14	180	< 2	79	0.06	108	< 10	66
107542	205 226	1.73	0.68	0.33	725	18	0.05	47	350	58	201	0.07	100	< 10	1105
107543	205 226	15.00	0.48	0.71	415	4	0.07	32	500	< 2	50	0.16	105	< 10	40
107544	205 226	6.94	0.44	0.41	175	3	0.03	23	310	< 2	23	0.10	73	< 10	190
107545	205 226	4.47	0.10	0.12	2420	11	< 0.01	4	1660	610	177	0.02	104	10	22
107546	205 226	5.84	0.19	0.10	1290	14	0.01	15	2950	750	266	0.01	138	10	50
107547	205 226	4.72	0.18	0.13	1915	8	< 0.01	9	1480	570	235	0.01	86	10	20
107548	205 226	5.40	0.10	0.12	2090	12	0.01	6	2110	820	184	0.01	128	10	12
107549	205 226	4.37	1.29	0.60	1255	6	0.08	33	780	220	166	0.10	147	10	618
107550	205 226	2.04	2.69	0.92	405	3	0.20	3	120	40	92	0.13	11	< 10	100

CERTIFICATION: Hart Beckler



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INVOICE NUMBER

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BILLING INFORMATION

Date: 9-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

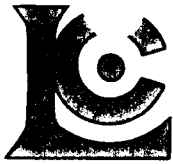
Billing: For analysis performed on
Certificate A9622523

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
22	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	766.70
				Total Cost \$ 766.70
				Client Discount (25%) \$ -191.68
				Net Cost \$ 575.02
				(Reg# R100938885) GST \$ 40.25
				TOTAL PAYABLE (CDN) \$ 615.27



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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QC Pa:
 Tot Q:
 Date:
 Invoice #:
 P.O. #:

1-A
 1
 09-JUL-96
 19622523
 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622523

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CKR-W CHEMEX MEAN	Std1	1	85	----	----	----	----	----	----	----	----	----	----	----	----	----
	----	----	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	6.80	950	1.5	4	2.17	1.5	20	137	224
	----	----	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90 CHEMEX MEAN	Std1	1	----	60	8.0	190	2.6	----	----	----	----	----	----	----	----	----
	----	----	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
104890	Dup1	01	< 5	4	1.6	40	< 0.2	7.30	470	1.5	< 2	0.88	0.5	5	121	6
	Orig1	01	< 5	1	1.8	50	0.4	6.80	1190	1.5	< 2	0.84	1.0	5	176	3

CERTIFICATION: Hart Buehler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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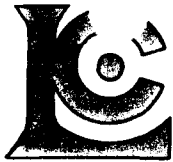
QC Pa: 1-B
 Tot QC: 1
 Date: 09-JUL-96
 Invoice #: 19622523
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9622523

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1	1	4.02	1.79	1.00	1015	7	1.75	77	1060	-----	325	0.34	102	10	240
	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	196	-----	-----	-----	-----	-----
	---	---	----	----	----	----	----	----	----	----	195	-----	-----	-----	-----	-----
104890	Dupl-01		1.91	3.08	0.13	250	2	0.45	4	590	46	103	0.15	14	< 10	82
	Origl-01		1.81	2.95	0.12	235	< 1	0.42	6	560	40	98	0.14	12	< 10	72

CERTIFICATION: Hart Buchler



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A9622523

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9622523

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 9-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	22	Geochem ring to approx 150 mesh
226	22	0-3 Kg crush and split
3202	22	Rock - save entire reject
285	22	ICP - HF digestion charge
287	22	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	22	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	22	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	22	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	22	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	22	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	22	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	22	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	22	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	22	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	22	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	22	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	22	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	22	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	22	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	22	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	22	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	22	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	22	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	22	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	22	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	22	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	22	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	22	Pb ppm: 24 element, rock & core	AAS	2	10000
582	22	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	22	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	22	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	22	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	22	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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Page 1 of 1-A
 Total F : 1
 Certificate Date: 09-JUL-96
 Invoice No. : I9622523
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622523

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104890	205 226	< 5	1	1.8	50	0.4	6.80	1190	1.5	< 2	0.84	1.0	5	176	3
104891	205 226	< 5	1	1.2	90	< 0.2	1.19	230	< 0.5	< 2	0.12	< 0.5	5	132	86
104892	205 226	< 5	14	17.0	12230	14.4	6.16	370	1.0	< 2	1.20	207	5	156	12
104893	205 226	< 5	2	1.0	30	< 0.2	6.80	1210	1.5	< 2	1.48	1.5	4	79	1
104894	205 226	< 5	4	1.4	70	0.2	6.58	780	1.5	< 2	0.39	1.5	4	64	2
104895	205 226	< 5	6	2.0	3030	1.2	6.67	220	1.5	< 2	0.39	54.0	4	70	5
104896	205 226	< 5	10	31	12850	10.0	5.71	420	1.0	< 2	1.45	296	5	73	22
104897	205 226	< 5	28	34	3260	20.4	6.99	460	1.0	< 2	2.13	75.0	6	79	15
104898	205 226	< 5	34	16.5	4620	10.4	6.61	380	1.0	< 2	0.84	36.0	6	94	13
104899	205 226	< 5	1	1.6	40	< 0.2	6.87	1250	2.0	< 2	1.57	1.5	5	87	9
104900	205 226	< 5	2	0.4	< 10	< 0.2	1.67	150	< 0.5	< 2	0.19	< 0.5	5	149	78
104901	205 226	< 5	1	0.4	< 10	1.2	5.52	110	< 0.5	< 2	4.76	< 0.5	36	26	140
104902	205 226	< 5	2	0.4	50	< 0.2	1.33	300	< 0.5	< 2	3.49	< 0.5	8	91	51
104903	205 226	< 5	1	0.4	< 10	< 0.2	1.28	5320	< 0.5	< 2	2.63	< 0.5	4	142	9
104904	205 226	< 5	1	0.2	< 10	< 0.2	3.81	4770	2.0	4	11.85	< 0.5	9	61	44
104905	205 226	60	2	0.4	20	< 0.2	1.56	320	< 0.5	< 2	0.92	< 0.5	5	127	49
104906	205 226	< 5	2	1.0	10	< 0.2	1.08	280	< 0.5	< 2	2.95	< 0.5	4	120	22
104907	205 226	< 5	1	0.2	< 10	< 0.2	1.47	650	0.5	< 2	1.19	< 0.5	4	137	35
104908	205 226	50	2	0.2	< 10	< 0.2	0.99	710	0.5	< 2	2.10	< 0.5	5	138	33
104909	205 226	< 5	2	0.4	10	< 0.2	1.01	300	< 0.5	< 2	0.58	< 0.5	3	147	16
104910	205 226	< 5	2	0.4	10	< 0.2	1.64	350	2.0	6	0.85	< 0.5	3	207	25
104911	205 226	< 5	1	0.4	90	< 0.2	1.70	270	6.5	< 2	0.54	< 0.5	3	170	54

CERTIFICATION:

Terry Tucker



Chemex Labs Ltd.

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Page No. : 1-B
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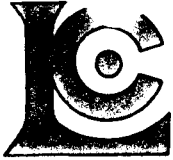
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9622523

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104890	205 226	1.81	2.95	0.12	235	< 1	0.42	6	560	40	98	0.14	12	< 10	72
104891	205 226	>25.0	0.01	0.34	590	4	0.01	14	< 10	< 2	59	0.05	114	< 10	24
104892	205 226	4.67	2.56	0.28	215	2	0.80	6	450	2800	94	0.12	18	< 10	>10000
104893	205 226	1.14	2.72	0.14	210	2	1.00	4	610	40	202	0.14	13	< 10	118
104894	205 226	1.31	2.92	0.11	120	2	0.24	6	570	54	63	0.14	13	< 10	122
104895	205 226	2.00	3.11	0.10	125	2	0.19	8	600	52	65	0.14	11	< 10	4920
104896	205 226	2.66	3.40	0.08	285	< 1	0.18	11	520	160	197	0.12	9	< 10	>10000
104897	205 226	3.35	3.65	0.11	410	1	0.20	15	660	6400	244	0.15	15	< 10	6030
104898	205 226	3.81	3.04	0.12	165	1	0.19	24	550	3600	116	0.15	13	< 10	6620
104899	205 226	1.43	3.59	0.34	345	1	0.28	8	760	48	165	0.17	26	< 10	106
104900	205 226	11.15	0.05	0.32	380	3	0.01	10	350	< 2	49	0.10	56	< 10	48
104901	205 226	9.34	0.86	1.63	1480	6	0.98	13	620	< 2	97	0.27	99	20	64
104902	205 226	17.85	0.01	0.35	2080	24	0.01	8	200	< 2	189	0.08	77	10	148
104903	205 226	7.97	0.02	0.21	665	1	< 0.01	5	330	2	215	0.06	77	< 10	20
104904	205 226	3.75	1.82	0.88	3240	< 1	0.15	14	370	12	1400	0.09	64	10	22
104905	205 226	14.30	0.05	0.39	585	3	0.01	10	400	< 2	216	0.08	82	< 10	44
104906	205 226	20.4	0.01	0.36	2170	6	0.01	9	250	< 2	74	0.05	87	< 10	36
104907	205 226	14.50	0.15	0.25	450	5	0.01	12	290	< 2	147	0.09	95	< 10	14
104908	205 226	10.55	0.04	0.19	665	8	< 0.01	8	240	< 2	209	0.06	66	< 10	18
104909	205 226	18.15	0.05	0.13	290	8	0.01	8	130	< 2	272	0.05	79	< 10	16
104910	205 226	12.90	0.47	0.30	375	7	0.04	11	500	< 2	172	0.08	84	< 10	58
104911	205 226	12.20	0.14	0.26	230	29	0.01	13	480	< 2	115	0.10	109	< 10	204

CERTIFICATION: _____

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 3 2 6 8

BILLING INFORMATION

Date: 19-JUL-96
Project: WOLVERINE REGIONAL
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9623268

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
42	205 - Geochem ring to approx 150 mesh	2.50		
	276 - 8-12 Kg crush and split	5.00		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	37.75	1585.50
Total Cost \$				1585.50
Client Discount (25%) \$				-396.38
Net Cost \$				1189.12
(Reg# R100938885) GST \$				83.24
TOTAL PAYABLE (CDN) \$				1272.36

COPY



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 212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa
 Tot QC
 Date:
 Invoice #:
 P.O. #:

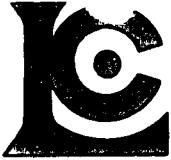
1-A
 1
 18-JUL-96
 19623268
 6406
 GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9623268

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	85 81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT G90-TOT G90-TOT CHEMEX MEAN	Std1 Std2 Std1	1 1 2	----	----	----	----	----	6.71 6.55 6.83 7.07	790 750 750 766	1.5 1.5 1.5 0.9	< 2 6 2 5	2.21 2.11 2.12 2.12	1.5 1.5 2.0 0.9	20 20 19 19	142 137 139 141	226 209 216 221
GEO-90 GEO-90 CHEMEX MEAN	Std1 Std2	1 1	----	66 66 61	7.6 7.6 7.7	210 210 189	3.0 3.0 3.0	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	Std2	1	340 334	----	----	----	----	----	----	----	----	----	----	----	----	----
SI02-3 CHEMEX MEAN	Blnk	1	----	----	----	10 19	----	----	----	----	----	----	----	----	----	----
SI02-G2 CHEMEX MEAN	Blnk	1	----	1 2	< 0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	----
SI02-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.33 0.24	40 13	< 0.5 < 0.5	2 < 2	0.04 0.01	< 0.5 < 0.5	< 1 < 1	8 5	2 2	
104981	Dupl-01 Origl-01		< 5 < 5	8 8	2.4 2.4	690 710	2.2 2.6	6.38 6.67	1030 1060	1.5 1.5	< 2 < 2	0.27 0.30	20.0 20.5	4 5	63 71	7 7

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot Q: 1
 Date: 18-JUL-96
 Invoice #: I9623268
 P.O. #: 6406
 GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9623268

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.98	1.80	0.99	1050	7	1.78	76	1220	----	322	0.35	107	10	246
G90-TOT	Std2	1	3.81	1.75	0.97	1000	8	1.72	74	1190	----	306	0.34	103	10	232
G90-TOT	Std1	2	3.83	1.80	1.00	1000	6	1.79	74	1210	----	313	0.34	104	10	232
CHEMEX MEAN	----	----	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	180	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94 CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
											< 2					
SIO2-T3 CHEMEX MEAN	Blnk	1	0.07	0.09	0.02	5	< 1	0.02	< 1	210	----	180	0.01	5	< 10	2
	----	----	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
104981	Dupl-01		1.92	3.42	0.10	145	2	0.19	6	670	520	61	0.14	12	< 10	1535
	Origl-01		1.98	3.47	0.11	155	3	0.21	4	730	570	67	0.14	13	< 10	1575

CERTIFICATION:

Stuart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9623268

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9623268**

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE REGIONAL
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 18-JUL-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	42	Geochem ring to approx 150 mesh
276	42	8-12 Kg crush and split
3202	42	Rock - save entire reject
285	42	ICP - HF digestion charge
287	42	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	42	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	42	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	42	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	42	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	42	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	42	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	42	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	42	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	42	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	42	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	42	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	42	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	42	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	42	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	42	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	42	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	42	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	42	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	42	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	42	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	42	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	42	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	42	Pb ppm: 24 element, rock & core	AAS	2	10000
582	42	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	42	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	42	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	42	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	42	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-A
 Total : 2
 Certificate Date: 18-JUL-96
 Invoice No. : 19623268
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9623268

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104981	205 276	< 5	8	2.4	710	2.6	6.67	1060	1.5	< 2	0.30	20.5	5	71	7
104982	205 276	< 5	4	1.0	100	0.4	6.79	960	1.5	< 2	0.54	3.0	4	127	6
104983	205 276	< 5	4	1.4	20	0.4	7.03	530	1.5	< 2	1.53	1.0	4	107	4
104984	205 276	< 5	6	1.0	40	0.4	6.69	570	1.5	< 2	1.27	1.0	4	144	4
104985	205 276	< 5	12	1.4	1400	0.6	6.65	850	1.5	< 2	1.01	35.0	5	95	7
104986	205 276	< 5	20	2.6	3330	1.4	5.83	580	1.0	< 2	0.14	93.0	5	108	17
104987	205 276	< 5	10	3.6	1310	2.8	6.24	680	1.5	< 2	0.33	36.5	4	123	11
104988	205 276	< 5	4	0.8	20	< 0.2	6.41	1590	2.0	< 2	1.18	0.5	4	185	5
104989	205 276	< 5	20	0.8	30	< 0.2	7.44	1410	2.5	< 2	0.93	0.5	5	135	8
104990	205 276	< 5	2	0.6	30	< 0.2	5.39	1340	2.0	< 2	0.92	< 0.5	4	241	8
104991	205 276	< 5	4	0.2	10	< 0.2	6.11	1680	2.0	< 2	1.32	< 0.5	4	109	7
104992	205 276	< 5	2	1.4	10	< 0.2	6.69	1920	2.0	< 2	1.03	0.5	4	132	7
104993	205 276	< 5	6	0.4	< 10	< 0.2	6.69	2160	2.0	< 2	0.60	0.5	3	84	6
104994	205 276	< 5	6	0.4	< 10	< 0.2	6.95	1630	2.0	< 2	1.48	0.5	4	104	7
104995	205 276	< 5	6	0.2	< 10	< 0.2	6.74	1400	2.0	< 2	1.91	0.5	5	112	8
104996	205 276	< 5	4	0.4	< 10	< 0.2	6.42	1250	2.0	< 2	2.04	0.5	4	125	9
104997	205 276	< 5	16	0.6	10	< 0.2	6.09	1530	1.5	< 2	2.15	0.5	5	124	10
104998	205 276	< 5	6	0.4	30	< 0.2	6.55	1900	1.5	< 2	1.88	1.5	5	120	9
104999	205 276	< 5	16	0.4	10	< 0.2	6.68	2170	1.0	< 2	2.47	2.0	6	179	10
105000	205 276	< 5	18	1.8	40	< 0.2	5.51	250	1.5	6	6.74	1.5	21	351	38
105051	205 276	10	10	2.8	480	2.6	1.00	450	0.5	2	2.24	20.0	3	410	116
107480	205 276	55	54	14.0	1150	7.0	9.02	260	3.5	< 2	0.47	4.5	6	124	20
107481	205 276	85	56	21	1480	6.6	7.42	1280	2.0	< 2	0.65	2.0	5	91	17
107482	205 276	55	76	17.0	1520	10.8	8.07	70	0.5	< 2	0.67	14.0	4	86	21
107483	205 276	35	60	13.0	920	7.2	8.22	140	1.5	< 2	1.38	7.0	5	52	22
107484	205 276	< 5	42	10.0	4870	2.4	7.35	220	2.5	< 2	3.21	33.5	5	100	101
107485	205 276	< 5	24	8.8	870	0.8	6.26	200	2.5	2	1.29	6.0	4	128	24
107486	205 276	< 5	10	3.6	110	< 0.2	6.07	280	2.0	2	1.73	0.5	4	99	8
107487	205 276	< 5	10	3.2	70	< 0.2	6.82	230	2.0	< 2	1.44	< 0.5	4	114	10
107488	205 276	< 5	12	1.6	40	< 0.2	6.46	2520	2.0	< 2	1.71	1.0	5	109	5
107489	205 276	< 5	2	1.8	20	< 0.2	7.12	2460	2.0	< 2	1.86	0.5	6	188	6
107490	205 276	< 5	2	3.2	30	< 0.2	6.87	2500	1.5	< 2	2.20	0.5	5	119	5
107491	205 276	< 5	1	1.4	< 10	< 0.2	6.92	2560	2.0	< 2	3.31	0.5	5	154	6
107492	205 276	< 5	2	1.2	10	< 0.2	6.56	2010	2.0	< 2	2.87	0.5	5	137	6
107493	205 276	< 5	2	2.0	20	< 0.2	5.74	1770	1.5	< 2	1.69	< 0.5	5	216	7
107494	205 276	< 5	2	1.4	10	< 0.2	7.31	2570	2.5	< 2	1.53	< 0.5	6	146	9
107495	205 276	< 5	1	1.4	30	< 0.2	5.67	680	2.0	< 2	2.80	0.5	4	146	7
107496	205 276	< 5	1	0.8	10	< 0.2	6.52	660	2.0	< 2	1.88	0.5	4	109	6
107497	205 276	< 5	4	1.2	20	< 0.2	6.26	1530	2.0	< 2	1.74	1.0	5	112	11
107498	205 276	< 5	2	0.8	30	< 0.2	5.93	1050	2.0	< 2	1.39	0.5	5	172	9

CERTIFICATION: Haut Bichler



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 1 of 1-B
 Total : 2
 Certificate Date: 18-JUL-96
 Invoice No. : 19623268
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9623268

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104981	205 276	1.98	3.47	0.11	155	3	0.21	4	730	570	67	0.14	13	< 10	1575
104982	205 276	1.37	3.65	0.11	165	3	0.20	5	750	40	86	0.14	14	< 10	298
104983	205 276	1.57	3.21	0.15	365	1	0.19	1	740	26	134	0.16	13	< 10	66
104984	205 276	1.65	3.17	0.16	340	2	0.18	2	730	20	121	0.15	13	< 10	116
104985	205 276	2.24	3.20	0.14	335	1	0.22	3	730	28	105	0.15	13	< 10	2980
104986	205 276	3.99	3.29	0.10	95	4	0.19	7	610	14	34	0.13	11	< 10	6860
104987	205 276	2.39	3.32	0.15	165	3	0.18	5	640	600	39	0.13	12	< 10	2880
104988	205 276	1.26	3.49	0.35	290	3	0.15	5	1110	30	94	0.12	38	< 10	78
104989	205 276	1.62	3.85	0.45	200	4	0.19	8	1240	12	87	0.13	46	< 10	60
104990	205 276	1.45	2.89	0.29	205	3	0.13	5	750	12	71	0.09	32	< 10	58
104991	205 276	1.21	3.84	0.33	200	1	0.14	4	980	24	124	0.13	34	< 10	46
104992	205 276	1.30	4.47	0.33	195	3	0.17	5	1050	28	104	0.12	36	< 10	60
104993	205 276	1.34	4.93	0.26	180	3	0.19	5	970	28	80	0.12	37	< 10	54
104994	205 276	1.17	4.02	0.42	165	3	0.16	6	1410	30	103	0.15	37	< 10	50
104995	205 276	1.58	3.57	0.44	240	2	0.17	4	1080	22	104	0.18	33	< 10	48
104996	205 276	1.41	3.34	0.39	195	4	0.18	10	1030	26	112	0.17	86	< 10	76
104997	205 276	1.42	3.36	0.30	220	5	0.13	17	1060	22	113	0.17	97	< 10	78
104998	205 276	1.29	3.40	0.26	210	4	0.15	13	900	10	103	0.18	89	< 10	62
104999	205 276	1.38	3.13	0.39	280	1	0.32	16	910	32	125	0.19	71	< 10	88
105000	205 276	4.26	2.82	2.23	1495	1	0.15	148	900	12	237	0.26	109	10	122
105051	205 276	0.97	0.42	0.09	65	12	0.02	108	9930	28	633	0.03	426	< 10	1835
107480	205 276	3.47	4.67	0.48	125	3	0.31	5	600	156	50	0.24	38	< 10	362
107481	205 276	3.06	3.32	0.24	105	5	1.85	4	500	72	91	0.14	22	< 10	160
107482	205 276	2.45	3.33	0.06	105	5	4.01	4	570	170	121	0.09	10	< 10	1385
107483	205 276	1.82	2.70	0.16	180	4	3.96	3	750	110	199	0.14	15	< 10	642
107484	205 276	1.64	3.75	0.70	480	3	0.20	6	720	146	235	0.17	31	< 10	3090
107485	205 276	1.57	3.07	0.59	180	7	0.13	17	960	34	98	0.14	118	< 10	484
107486	205 276	1.29	2.37	0.56	165	3	0.33	5	750	12	80	0.14	22	< 10	38
107487	205 276	1.44	3.26	0.60	165	2	0.41	3	710	16	67	0.15	23	< 10	36
107488	205 276	0.97	3.20	0.57	155	1	0.17	6	690	30	84	0.14	24	< 10	76
107489	205 276	1.13	3.24	0.60	200	1	0.20	7	1030	20	113	0.16	28	< 10	52
107490	205 276	1.56	3.09	0.73	410	2	0.19	4	700	18	143	0.14	30	< 10	42
107491	205 276	1.18	3.21	0.64	220	3	0.21	5	830	22	226	0.14	37	< 10	64
107492	205 276	1.17	3.15	0.56	195	3	0.19	4	680	22	181	0.14	36	< 10	70
107493	205 276	1.19	2.69	0.45	150	4	0.18	7	670	48	128	0.13	43	< 10	52
107494	205 276	1.18	3.29	0.26	210	4	0.18	8	1120	24	144	0.14	50	< 10	38
107495	205 276	1.17	2.93	0.29	230	3	0.16	7	1060	20	181	0.13	30	< 10	54
107496	205 276	1.30	3.03	0.46	155	4	0.20	8	700	12	107	0.14	29	< 10	34
107497	205 276	1.38	2.87	0.64	170	3	0.20	9	890	16	76	0.16	60	< 10	88
107498	205 276	1.24	2.81	0.63	95	4	0.19	9	780	14	64	0.14	51	< 10	108

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number: 2-A
Total Pages: 2
Certificate Date: 18-JUL-96
Invoice No.: 19623268
P.O. Number: 6406
Account: GP W

Project: WOLVERINE REGIONAL
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9623268

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107499	205 276	< 5	8	1.4	50	< 0.2	6.18	1490	1.5	< 2	2.37	0.5	6	137	6
107500	205 276	5	10	1.6	50	0.4	6.30	1190	1.5	< 2	0.47	< 0.5	4	204	5

CERTIFICATION: H. S. [Signature]



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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Page 1 of 2-B
Total F : 2
Certificate Date: 18-JUL-96
Invoice No. : 19623268
P.O. Number : 6406
Account : GP W

Project : WOLVERINE REGIONAL
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9623268

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
	107499	205	276	1.31	2.89	0.29	345	4	0.16	4	860	32	191	0.13	30	< 10
107500	205	276	1.78	2.89	0.11	140	6	0.19	5	690	46	100	0.13	12	< 10	60

CERTIFICATION:

[Signature]



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PHONE: 604-984-0221

: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 3 5 2 6

BILLING INFORMATION

Date: 19-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9623526

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
33	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	1196.25
				Total Cost \$ 1196.25
				Client Discount (25%) \$ <u>-299.06</u>
				Net Cost \$ 897.19
				(Reg# R100938885) GST \$ <u>62.80</u>
				TOTAL PAYABLE (CDN) \$ 959.99



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Project: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot Q: 1
 Date: 18-JUL-96
 Invoice #: I9623526
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9623526

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CSB-93 CHEMEX MEAN	Std1	1	930 904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT G90-TOT CHEMEX MEAN	Std1 Std2	1 1	----	----	----	----	----	7.04 6.81 7.07	770 750 766	1.5 1.5 0.9	4 < 2 5	2.19 2.11 2.12	1.5 2.0 0.9	21 19 19	139 136 141	224 215 221
GEO-90 GEO-90 CHEMEX MEAN	Std1 Std2	1 1	----	66 61	8.0 8.0 7.7	250 ----	2.8 2.6 3.0	----	----	----	----	----	----	----	----	----
TVB-95 CHEMEX MEAN	Std2	1	455 448	----	----	----	----	----	----	----	----	----	----	----	----	----
104969	Dupl-01 Orig1-01		< 5 < 5	2 2	7.0 7.2	330 320	0.6 0.4	8.71 8.43	2990 3080	2.5 2.5	< 2 < 2	1.87 1.87	9.0 8.5	6 6	96 89	46 47

CERTIFICATION: *[Signature]*



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 212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pr: 1-B
 Tot Q: 1
 Date: 18-JUL-96
 Invoice #: I9623526
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9623526

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CSB-93 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.93	1.88	1.02	1045	7	1.83	76	1230	----	324	0.35	107	10	240
G90-TOT	Std2	1	3.83	1.85	0.99	1015	8	1.80	74	1200	----	311	0.34	103	10	234
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	194	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
TVB-95 CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
104969	Dupl-01		2.61	2.76	4.96	670	1	0.32	4	500	76	64	0.17	25	< 10	1085
	Origl-01		2.63	2.71	4.14	670	3	0.28	4	530	88	63	0.15	24	< 10	1080

CERTIFICATION: Hart Bickler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9623526

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9623526

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	33	Geochem ring to approx 150 mesh
294	33	4-7 Kg crush and split
3202	33	Rock - save entire reject
285	33	ICP - HF digestion charge
287	33	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	33	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	33	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	33	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	33	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	33	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	33	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	33	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	33	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	33	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	33	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	33	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	33	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	33	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	33	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	33	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	33	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	33	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	33	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	33	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	33	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	33	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	33	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	33	Pb ppm: 24 element, rock & core	AAS	2	10000
582	33	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	33	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	33	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	33	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	33	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1-A
 Total 1
 Certificate Date: 18-JUL-96
 Invoice No. : 19623526
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9623526

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
104969	205 294	< 5	2	7.2	320	0.4	8.43	3080	2.5	< 2	1.87	8.5	6	89	47
104970	205 294	< 5	2	3.8	30	< 0.2	6.77	1710	2.0	< 2	1.50	0.5	6	98	23
104971	205 294	10	8	5.0	570	0.8	6.99	710	2.0	< 2	1.24	9.5	7	116	191
104972	205 294	5	4	2.0	1620	0.2	7.06	1290	2.0	2	1.08	23.5	6	91	264
104973	205 294	10	2	72	2870	0.4	7.91	560	2.5	< 2	1.14	41.5	6	60	402
104974	205 294	< 5	2	32	1850	< 0.2	6.76	890	2.0	< 2	1.85	26.5	5	113	214
104975	205 294	< 5	4	34	60	< 0.2	7.08	2220	2.5	< 2	2.70	1.0	5	182	75
104976	205 294	< 5	1	12.5	80	< 0.2	7.25	2330	2.5	< 2	2.58	1.5	5	183	16
104977	205 294	< 5	2	2.2	140	< 0.2	7.03	2190	2.5	< 2	2.43	3.5	4	144	38
104978	205 294	< 5	22	1.6	110	0.4	6.59	2000	2.5	< 2	1.65	3.0	5	172	30
104979	205 294	< 5	2	2.8	440	0.6	7.18	2120	2.0	4	3.92	6.0	5	132	29
104980	205 294	< 5	16	7.6	920	1.6	7.18	210	3.0	< 2	3.61	7.0	5	169	17
105101	205 294	< 5	8	7.0	550	1.0	8.19	2950	2.0	< 2	2.62	3.0	6	59	18
105102	205 294	10	24	7.2	190	1.2	7.85	140	2.5	< 2	3.60	0.5	6	185	12
105103	205 294	< 5	14	3.2	180	0.4	7.46	1850	2.0	< 2	1.23	1.0	5	142	7
105104	205 294	< 5	16	3.0	200	0.2	7.31	960	2.0	< 2	0.99	1.5	5	156	6
105105	205 294	< 5	10	2.6	190	< 0.2	7.72	2440	2.5	< 2	1.01	< 0.5	5	114	6
105106	205 294	< 5	12	2.4	200	< 0.2	6.80	450	2.0	< 2	0.96	1.0	4	161	7
105107	205 294	< 5	16	2.0	180	< 0.2	7.17	220	2.5	< 2	1.02	0.5	5	118	7
105108	205 294	< 5	14	1.8	180	< 0.2	6.70	1300	2.5	< 2	3.43	< 0.5	4	51	5
105109	205 294	< 5	16	2.4	330	< 0.2	6.98	1360	2.0	< 2	2.73	1.5	5	113	8
105110	205 294	< 5	18	4.0	480	2.2	7.24	700	2.0	< 2	2.33	2.0	5	97	14
105111	205 294	10	24	7.2	500	4.8	7.12	1520	2.0	< 2	2.25	1.5	4	93	16
105112	205 294	25	36	10.0	850	6.4	7.50	140	2.0	< 2	2.49	2.5	5	154	19
105113	205 294	30	36	8.8	550	5.2	6.83	850	2.0	< 2	2.03	1.5	4	115	15
105114	205 294	75	48	74	3880	10.6	6.78	130	1.5	< 2	4.87	13.5	5	59	123
105115	205 294	80	212	20	480	4.4	7.30	1370	2.5	< 2	1.69	1.5	5	88	36
105116	205 294	25	30	15.0	890	4.8	8.22	160	3.5	< 2	0.66	10.0	5	79	42
105117	205 294	10	36	9.8	1880	0.4	7.91	970	2.0	< 2	2.82	16.0	6	55	26
105118	205 294	< 5	14	2.6	720	< 0.2	6.95	970	2.0	< 2	5.66	8.5	5	29	10
105119	205 294	15	6	1.8	830	0.8	6.90	1250	2.0	< 2	2.99	29.0	6	101	510
105120	205 294	< 5	2	1.2	90	0.6	7.26	1850	2.5	< 2	2.69	3.0	4	124	70
105121	205 294	< 5	6	1.6	90	< 0.2	6.58	1710	2.0	< 2	0.67	1.0	4	140	7

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

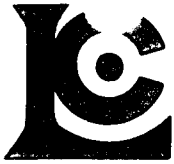
Page 1 of 1-B
 Total F : 1
 Certificate Date: 18-JUL-96
 Invoice No. : I9623526
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9623526

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
104969	205 294	2.63	2.71	4.14	670	3	0.28	4	530	88	63	0.15	24	< 10	1080
104970	205 294	2.65	2.13	3.62	420	2	0.20	3	460	4	54	0.13	19	< 10	184
104971	205 294	3.05	2.62	3.07	385	1	0.20	6	500	44	37	0.14	21	< 10	1155
104972	205 294	3.00	2.45	3.00	345	2	0.21	4	480	8	32	0.14	20	< 10	3020
104973	205 294	2.65	3.12	3.04	335	4	0.24	4	490	850	34	0.15	20	< 10	4830
104974	205 294	1.63	3.01	2.22	290	2	0.21	3	430	690	39	0.14	16	< 10	3370
104975	205 294	1.03	3.61	1.47	365	3	0.20	2	440	64	54	0.13	16	< 10	116
104976	205 294	1.29	3.60	1.57	360	3	0.21	4	480	36	54	0.14	17	< 10	96
104977	205 294	1.19	3.61	1.01	300	4	0.18	3	450	128	49	0.15	16	< 10	460
104978	205 294	1.53	3.76	1.23	275	3	0.14	4	440	56	54	0.16	17	< 10	320
104979	205 294	1.36	4.13	1.18	530	1	0.17	3	460	106	126	0.17	17	< 10	720
104980	205 294	1.43	3.89	0.72	280	3	0.16	5	450	134	146	0.17	19	< 10	758
105101	205 294	0.65	4.18	0.47	215	3	0.22	4	560	256	130	0.21	19	< 10	368
105102	205 294	2.13	4.07	0.77	445	4	0.18	5	570	48	147	0.26	26	< 10	78
105103	205 294	1.53	3.62	0.55	145	5	0.19	5	470	68	52	0.19	17	< 10	78
105104	205 294	1.45	3.28	0.58	120	2	0.20	4	480	66	59	0.19	18	< 10	74
105105	205 294	0.96	3.55	0.64	105	4	0.17	4	500	42	60	0.20	18	< 10	34
105106	205 294	1.42	3.10	0.46	195	3	0.53	4	430	96	63	0.17	15	< 10	104
105107	205 294	1.26	3.42	0.51	130	3	0.40	3	470	62	66	0.19	16	< 10	78
105108	205 294	0.91	3.36	0.45	355	5	0.16	1	410	88	160	0.17	14	< 10	96
105109	205 294	1.19	3.06	0.41	220	3	0.69	4	450	140	168	0.17	15	< 10	190
105110	205 294	1.24	2.42	0.33	200	2	2.16	2	470	156	184	0.16	15	< 10	240
105111	205 294	1.28	2.45	0.33	230	3	2.09	3	450	156	201	0.16	15	< 10	200
105112	205 294	1.67	2.78	0.39	315	3	1.80	6	470	240	208	0.18	16	< 10	272
105113	205 294	1.49	3.18	0.44	255	3	0.69	3	450	130	146	0.18	15	< 10	178
105114	205 294	1.82	3.46	0.43	420	1	0.18	2	420	2000	307	0.17	15	< 10	2080
105115	205 294	1.63	3.65	0.53	160	3	0.18	3	380	210	104	0.19	17	< 10	220
105116	205 294	2.85	4.37	0.73	120	3	0.20	4	720	600	57	0.24	25	< 10	1220
105117	205 294	2.27	4.41	0.89	365	3	0.19	5	950	390	103	0.26	39	< 10	1745
105118	205 294	1.65	3.89	1.13	560	2	0.19	4	960	68	184	0.23	22	< 10	768
105119	205 294	2.09	3.55	0.67	660	1	0.18	5	810	190	93	0.14	25	< 10	2880
105120	205 294	1.57	3.63	0.60	480	1	0.19	5	830	280	120	0.15	32	< 10	282
105121	205 294	1.54	2.76	0.27	85	3	0.96	4	700	24	63	0.14	21	< 10	90

CERTIFICATION: *[Handwritten Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 4 0 3 1**

BILLING INFORMATION

Date: 26-JUL-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9624031

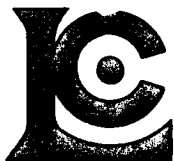
Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT	
2	255 - RUSH Geo ring to approx 150 mesh	3.75			
	295 - RUSH crush and split (0-3 Kg)	3.90			
	3202 - Rock - save entire reject	0.50			
	A-3 Cu,Pb,Zn assay group	28.12			
	ICP-T27 total digest ICP	20.00			
	991 - Au ppb RUSH	14.65			
	956 - Ag g/t RUSH	7.15			
	912 - Ba (XRF) ppm	8.75			
	444 - Spec Grv S.G.	8.00	94.82	189.64	
				Total Cost \$	189.64
				Client Discount (25%) \$	<u>-47.41</u>
				Net Cost \$	142.23
				(Reg# R100938885) GST \$	<u>9.96</u>
				TOTAL PAYABLE (CDN) \$	152.19



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9624031

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624031

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

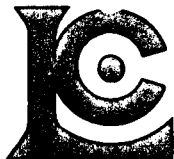
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 25-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	2	RUSH Geo ring to approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
285	2	ICP - HF digestion charge
287	2	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	2	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	2	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	2	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	2	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	2	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	2	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	2	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	2	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	2	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	2	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	2	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	2	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	2	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	2	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	2	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	2	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	2	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	2	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	2	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	2	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	2	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	2	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	2	Pb ppm: 24 element, rock & core	AAS	2	10000
582	2	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	2	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	2	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	2	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	2	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-A
Total Pages : 1
Certificate Date: 25-JUL-96
Invoice No. : 19624031
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

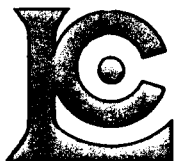
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9624031

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH	RUSH	RUSH	%	%	%	ppm	S.G.	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105069	255	295	55	14.3	0.18	0.10	3.17	22500	3.04	28	9.4	970	12.4	6.77	1010	1.0	10	10.70	268	8	39
105070	255	295	65	16.1	0.72	0.13	1.23	12960	2.97	12	14.0	640	14.0	5.57	4600	1.5	8	8.63	109.5	16	35

CERTIFICATION:

Hunter B. Chlen



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total Pages : 1
Certificate Date: 25-JUL-96
Invoice No. : I9624031
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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

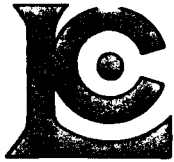
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9624031

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105069	255	295	1790	9.22	2.49	1.09	1295	1	0.31	5	100	720	254	0.09	78	< 10	>10000
105070	255	295	6960	9.47	2.00	3.12	1295	3	0.42	9	160	1200	245	0.10	51	< 10	>10000

CERTIFICATION:

*Ba-137 RESULTS MAY BE LOW DUE TO PRECIPITATION.



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P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 4 0 3 3

BILLING INFORMATION

Date: 26-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9624033

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	739.92

Additional charges:

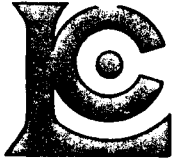
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	781.92
	Client Discount (25% of \$774.92) \$	<u>-193.73</u>

	Net Cost \$	588.19
(Reg# R100938885)	GST \$	<u>41.17</u>

TOTAL PAYABLE (CDN) \$ 629.36

* Not Subject Discount



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

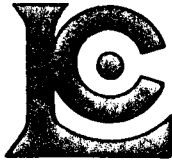
QC Pa. : 1-A
 Tot QC Pg: 1
 Date: 25-JUL-96
 Invoice #: 19624033
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624033

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHRUSH	Ag g/t FA	Cu %	Pb %	ZnBa % (XRFSpec Gr ppm S.G.)	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	0.007 0.008	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
CD-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	0.67 0.67	3.48 3.58	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
GEO-90 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	860 865	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
JV-1 CHEMEX MEAN	Std1 ---	1 ---	0.48 0.62	175 175	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	0.85 0.83	0.46 0.45	0.95 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
SILICA CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	2.58 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
SU-1A CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	4.0 4.3	5.60 5.72	300 285	< 10 < 10	20 < 20	3.20 3.50	< 10 < 10	370 364	270 266

CERTIFICATION: Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

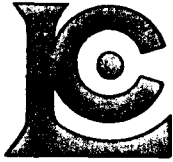
QC Page: 1-B
 Tot QC Pg: 1
 Date: 25-JUL-96
 Invoice #: I9624033
 P.O. #: 6406
 GPW

QC DATA OF CERTIFICATE

A9624033

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	std1 ---	1 ---	9550 9440	19.40 19.35	0.9 0.8	2.75 2.70	970 961	< 10 < 10	1.50 1.38	11270 11050	0.008 0.007	230 221	0.30 0.29	120 115	320 191

CERTIFICATION: Hank B. [Signature]



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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A9624033

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624033

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

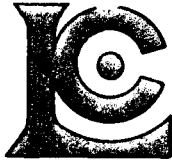
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 25-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	6	RUSH Assay ring approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
290	6	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	6	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	6	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	6	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	6	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	6	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	6	Ag ppm: high grade 24 element	AAS	0.5	200
4031	6	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	6	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	6	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	6	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	6	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	6	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	6	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	6	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	6	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	6	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	6	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	6	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	6	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	6	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	6	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	6	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	6	Pb %: high grade 24 element	AAS	0.001	10.00
4047	6	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	6	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	6	V ppm: A22 ICP package	ICP-AES	10	50000
4050	6	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

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 British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

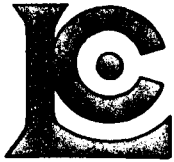
Page Number : 1-A
 Total Pages : 1
 Certificate Date: 25-JUL-96
 Invoice No. : 19624033
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624033

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRF) Spec Gr	As %	Sb %	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm			
	RUSH	RUSH FA					ppm S.G.			AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)			
105063	258	295	3.70	758	0.63	4.60	13.80	1360	4.32	0.61	0.17	0.004	>200	0.40	100	< 10	< 20	0.45	1170	30	130
105064	258	295	1.03	158	0.57	0.58	12.40	6760	4.29	0.39	0.01	< 0.001	157.0	1.60	< 100	< 10	20	1.35	1280	40	40
105065	258	295	2.40	274	0.47	2.06	11.40	4940	4.51	1.22	0.01	< 0.001	>200	0.95	100	< 10	20	0.35	1070	10	50
105066	258	295	1.65	117	0.41	0.50	11.10	3320	4.46	0.89	0.03	< 0.001	115.0	1.15	< 100	< 10	20	0.75	1140	30	70
105067	258	295	0.62	117	0.79	0.32	10.40	10170	4.03	0.15	< 0.01	< 0.001	115.0	3.05	< 100	< 10	20	1.70	1080	40	80
105068	258	295	0.21	41	0.57	0.10	4.91	18440	3.53	0.05	< 0.01	< 0.001	44.0	4.65	100	< 10	20	4.80	500	40	70

CERTIFICATION: Barbara Miller



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
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Page : 1 of 1
Total Pages : 1
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CERTIFICATE OF ANALYSIS

A9624033

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105063	258	295	6280	29.3	0.1	0.05	520	50	< 0.05	420	4.53	30	< 0.05	80	>100000
105064	258	295	5560	>30.0	0.6	0.30	460	10	0.05	10	0.554	30	< 0.05	70	>100000
105065	258	295	4590	>30.0	0.3	0.15	330	20	0.05	10	2.01	< 10	< 0.05	80	>100000
105066	258	295	4070	>30.0	0.4	0.15	290	10	0.05	< 10	0.490	10	< 0.05	50	99300
105067	258	295	8010	28.2	1.1	0.45	430	10	0.05	30	0.303	30	< 0.05	80	91900
105068	258	295	5450	20.9	1.9	0.75	750	< 10	0.15	10	0.094	130	0.05	100	46400

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 4 0 6 0

BILLING INFORMATION

Date: 26-JUL-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9624060

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

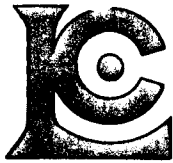
Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	568.92

Total Cost \$	568.92
Client Discount (25%) \$	-142.23
Net Cost \$	426.69
(Reg# R100938885) GST \$	29.87
TOTAL PAYABLE (CDN) \$	456.56

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9624060

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624060

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O.#:

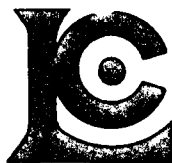
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 24-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	6	RUSH Geo ring to approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
285	6	ICP - HF digestion charge
287	6	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	6	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	6	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	6	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	6	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	6	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	6	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	6	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	6	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	6	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	6	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	6	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	6	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	6	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	6	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	6	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	6	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	6	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	6	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	6	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	6	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	6	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	6	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	6	Pb ppm: 24 element, rock & core	AAS	2	10000
582	6	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	6	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	6	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	6	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	6	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1
 Total Pages : 1
 Certificate Date: 24-JUL-96
 Invoice No. : I9624060
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

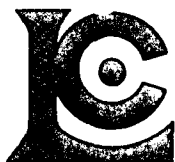
*PLEASE NOTE

CERTIFICATE OF ANALYSIS	A9624060
--------------------------------	-----------------

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr ppm	S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
			RUSH	RUSH								AAS									
105057	255	295	70	3.1	< 0.01	0.02	0.04	4100	2.70	68	44	660	3.4	3.65	50	0.5	2	2.50	4.0	6	99
105058	255	295	95	16.2	0.01	0.06	0.62	7050	2.69	100	68	6460	18.0	6.24	80	2.5	2	1.52	67.5	5	92
105059	255	295	25	1.3	< 0.01	< 0.01	0.02	10310	2.64	24	28	310	1.2	2.03	90	1.5	< 2	0.46	2.0	3	137
105060	255	295	40	2.5	0.01	< 0.01	0.04	28300	2.64	84	54	530	2.6	2.45	80	2.0	2	2.52	2.5	5	163
105061	255	295	160	5.8	0.01	0.02	0.20	16850	2.62	270	130	2460	6.0	2.55	60	3.0	4	3.44	31.5	5	207
105062	255	295	165	10.4	0.02	0.02	0.13	7620	2.63	288	105	910	10.8	2.52	50	4.5	< 2	3.96	14.0	6	283

CERTIFICATION: *Yhai D...*

*Ba - Results may be low due to precipitation.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 1 of 1
Total Pages : 1
Certificate Date: 24-JUL-96
Invoice No. : I9624060
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

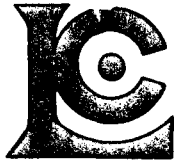
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9624060

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105057	255	295	49	3.95	1.80	0.46	345	26	0.07	56	490	132	93	0.13	302	< 10	392
105058	255	295	138	2.59	3.09	0.76	225	22	0.13	49	1060	530	81	0.17	394	< 10	5780
105059	255	295	44	1.36	0.89	0.22	100	4	0.06	48	220	12	33	0.08	133	< 10	294
105060	255	295	94	2.07	0.66	0.22	260	11	0.04	95	4020	18	105	0.09	274	< 10	440
105061	255	295	144	2.81	0.92	0.28	300	45	0.03	144	3400	144	130	0.09	1070	< 10	1960
105062	255	295	199	3.07	1.12	0.28	165	58	0.02	192	>10000	102	199	0.10	1045	< 10	1265

CERTIFICATION: *[Signature]*

*Ba - I RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 4 0 8 4

BILLING INFORMATION

Date: 16-JUL-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9624084

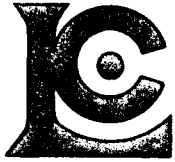
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	16.00
Total Cost \$				16.00
Client Discount (25%) \$				-4.00
Net Cost \$				12.00
(Reg# R100938885) GST \$				0.84
TOTAL PAYABLE (CDN) \$				12.84

COPY



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

.o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9624084

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624084

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

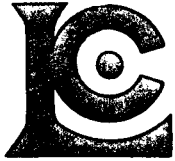
Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1G4

Page Number : 1
Total Pages : 1
Certificate Date: 16-JUL-96
Invoice No. : 19624084
P.O. Number : 6406
Account : GP W

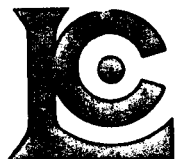
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9624084

SAMPLE	PREP CODE	Zn %										
104892	244 --	2.23										
104896	244 --	2.61										

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 4 4 1 3

BILLING INFORMATION

Date: 2-AUG-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9624413

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
7	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.13		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.33	863.31

Additional charges:

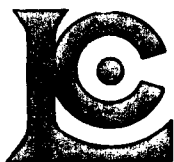
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	905.31
Client Discount (25% of \$898.31)	\$	<u>-224.58</u>

	Net Cost \$	680.73
(Reg# R100938885)	GST \$	<u>47.65</u>

TOTAL PAYABLE (CDN) \$ 728.38

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

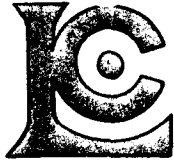
QC Pa. 1-A
 Tot QC Pg: 1
 Date: 31-JUL-96
 Invoice #: 19624413
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624413

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSH FA	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr ppm	Gr S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
CCU-1B CHEMEX MEAN	std1	1	----	----	----	----	----	----	----	----	0.007	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	----	----	0.008	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	std1	1	----	----	----	----	----	----	0.68	3.53	----	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	----	0.67	3.58	----	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	std1	1	----	----	----	----	860	----	----	----	----	----	----	----	----	----	----	----	----	----	----
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JV-1 CHEMEX MEAN	std1	1	0.58	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
			0.62	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	std1	1	----	----	0.85	0.46	0.94	----	----	----	----	----	----	----	----	----	----	----	----	----	----
			----	----	0.83	0.45	0.95	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	std1	1	----	----	----	----	----	2.55	----	----	----	----	----	----	----	----	----	----	----	----	----
			----	----	----	----	----	2.62	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	std1	1	----	----	----	----	----	----	----	----	----	5.0	5.45	300	< 10	< 20	3.10	< 10	360	270	
			----	----	----	----	----	----	----	----	----	4.3	5.72	285	< 10	< 20	3.50	< 10	364	266	

CERTIFICATION: Hart Beckler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa. 1-B
 Tot QC Pg: 1
 Date: 31-JUL-96
 Invoice #: 19624413
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

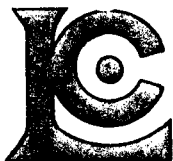
QC DATA OF CERTIFICATE

A9624413

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1 ---	9250 9440	18.95 19.35	0.7 0.8	2.70 2.70	950 961	< 10 < 10	1.35 1.38	11040 11050	0.008 0.007	220 221	0.30 0.29	110 115	1120 191

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
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VANCOUVER, BC
V7X 1C4

A9624413

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624413

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

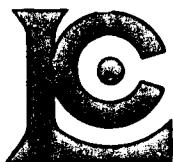
Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	7	RUSH Assay ring approx 150 mesh
295	7	RUSH crush and split (0-3 Kg)
3202	7	Rock - save entire reject
290	7	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	7	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	7	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	7	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	7	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	7	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	7	Ba ppm	XRF	10	50000
444	7	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	7	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	7	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	7	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	7	Ag ppm: high grade 24 element	AAS	0.5	200
4031	7	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	7	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	7	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	7	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	7	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	7	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	7	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	7	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	7	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	7	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	7	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	7	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	7	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	7	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	7	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	7	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	7	Pb %: high grade 24 element	AAS	0.001	10.00
4047	7	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	7	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	7	V ppm: A22 ICP package	ICP-AES	10	50000
4050	7	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

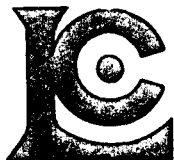
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-A
 Total Pages: 1
 Certificate Date: 31-JUL-96
 Invoice No.: I9624413
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9624413

SAMPLE	PREP		Au g/t	Ag g/t	Cu	Pb	Zn	Ba (XRF)	Spec Gr	As	Sb	Hg	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
	CODE		RUSH	RUSH	%	%	%	ppm	S.G.	%	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105135	258	295	2.74	336	0.29	2.82	12.40	310	4.23	0.81	0.25	0.005	>200	0.30	300	< 10	< 20	1.50	1060	30	130
105136	258	295	1.51	813	0.80	6.05	19.20	300	4.35	0.41	0.11	0.008	>200	0.25	200	< 10	< 20	0.40	1490	30	90
105137	258	295	3.91	895	0.09	7.01	12.40	495	4.55	0.54	0.12	0.006	>200	0.35	100	< 10	< 20	0.15	650	< 10	90
105138	258	295	2.06	453	1.06	2.88	13.10	450	4.46	0.27	0.06	0.005	>200	0.35	200	< 10	< 20	0.90	1010	20	80
105139	258	295	2.19	497	0.97	3.10	13.20	375	4.42	0.23	0.06	0.005	>200	0.35	200	< 10	< 20	0.55	1060	20	70
105140	258	295	1.23	415	1.77	2.30	12.30	6520	3.93	0.05	0.03	< 0.001	>200	3.55	100	< 10	< 20	0.65	1090	50	70
105141	258	295	0.48	134	0.81	0.39	22.5	1150	3.48	< 0.01	< 0.01	0.001	132.0	2.95	400	< 10	20	3.00	2370	60	30

CERTIFICATION: Hart Buchler



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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total Pages : 1
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Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

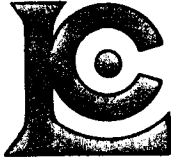
CERTIFICATE OF ANALYSIS

A9624413

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105135	258	295	2870	>30.0	< 0.1	0.05	480	70	< 0.05	110	2.79	70	< 0.05	120	>100000
105136	258	295	8030	26.4	< 0.1	0.05	490	80	< 0.05	90	5.86	10	< 0.05	90	>100000
105137	258	295	880	>30.0	< 0.1	< 0.05	270	90	< 0.05	190	6.44	< 10	< 0.05	290	>100000
105138	258	295	10580	>30.0	< 0.1	0.05	820	130	< 0.05	130	2.85	10	< 0.05	120	>100000
105139	258	295	9670	>30.0	< 0.1	0.05	750	110	< 0.05	120	3.19	10	< 0.05	90	>100000
105140	258	295	17810	25.7	1.2	0.55	480	10	0.05	10	2.33	30	< 0.05	90	>100000
105141	258	295	8000	18.00	0.1	2.25	1370	< 10	< 0.05	30	0.387	120	< 0.05	240	>100000

CERTIFICATION:

[Signature]



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

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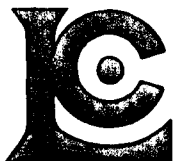
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 4 4 1 4**

BILLING INFORMATION	
Date:	2-AUG-96
Project:	WOLVERINE
P.O. No.:	6406
Account:	GP W
Comments:	ATTN: TERRY TUCKER - VANCOUVER OFFICE
Billing:	For analysis performed on Certificate A9624414
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts
Please Remit Payments to:	
CHEMEX LABS LTD. 212 Brooksbank Ave., North Vancouver, B.C. Canada V7J 2C1	

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	18.75		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	85.45	683.60
		Total Cost \$		683.60
		Client Discount (25%) \$		-170.90
		Net Cost \$		512.70
		(Reg# R100938885) GST \$		35.89
		TOTAL PAYABLE (CDN) \$		548.59

COPY



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to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa. 1-A
 Tot QC Pg: 1
 Date: 02-AUG-96
 Invoice #: 19624414
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

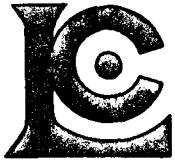
* PLEASE NOTE

QC DATA OF CERTIFICATE A9624414

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb	Ag g/t	Cu	Pb	ZnBa	(XRFSpec Gr	As	Sb	Hg	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	
		RUSH	RUSH	%	%	%	ppm S.G.	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
CKR-W CHEMEX MEAN	Std1 ---	1 ---	80 81	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	6.81 7.07	780 766	1.5 0.9	8 5	2.05 2.12	2.0 0.9	19 19	139 141	
GEO-90 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	880 865	60 61	7.6 7.7	200 189	2.6 3.0	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	22.2 22.2	0.84 0.83	0.45 0.45	0.94 0.95	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	2.58 2.62	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Bichler

* Ba- RESULTS MAY BE LOW DUE TO PRECIPITATION



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 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa. : 1-B
 Tot QC Pg: 1
 Date: 02-AUG-96
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 GP W

Project: WOLVERINE
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* PLEASE NOTE

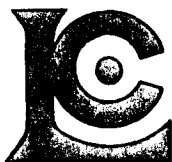
QC DATA OF CERTIFICATE

A9624414

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
CKR-W CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
G90-TOT CHEMEX MEAN	Std1 ---	1 ---	226 221	3.98 3.98	1.43 1.76	0.99 1.00	990 1015	7 7	1.84 1.74	71 76	1090 1120	----- -----	314 320	0.34 0.34	102 103	10 < 10	246 246
GEO-90 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----- -----	200 195	----- -----	----- -----	----- -----	----- -----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
SILICA CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	

CERTIFICATION: Hart Buchler

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 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9624414

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624414

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

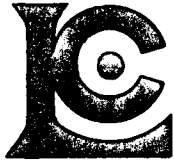
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 2-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	8	RUSH Geo ring to approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
285	8	ICP - HF digestion charge
287	8	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	8	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	8	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	8	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	8	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	8	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	8	Ba ppm	XRF	10	50000
444	8	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	8	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	8	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	8	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	8	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	8	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	8	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	8	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	8	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	8	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	8	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	8	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	8	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	8	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	8	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	8	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	8	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	8	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	8	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	8	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	8	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	8	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	8	Pb ppm: 24 element, rock & core	AAS	2	10000
582	8	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	8	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	8	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	8	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	8	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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Page Number : 1-A
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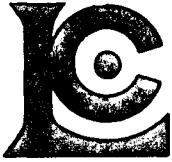
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9624414

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr ppm	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH				S.G.				AAS									
105130	255	295	480	160.0	0.09	0.53	5.10	8400	2.63	410	320	30100	>100.0	5.13	150	2.5	8	0.66	>500	6	274
105131	255	295	55	5.6	0.01	0.02	0.07	16020	2.39	86	68	430	5.2	3.06	110	2.5	2	1.66	6.0	4	232
105132	255	295	50	3.1	< 0.01	0.01	0.03	9970	2.68	40	32	240	2.6	2.80	110	2.5	< 2	2.41	2.0	3	264
105133	255	295	165	13.4	0.02	0.04	0.22	19320	2.31	230	74	1240	12.8	3.06	120	4.5	2	1.50	20.0	4	298
105134	255	295	465	32.2	0.02	0.06	0.36	9850	2.69	640	200	1500	32.8	2.66	80	8.0	< 2	1.42	38.5	4	472
105142	255	295	35	6.0	0.25	0.03	0.53	2330	2.79	2	18.0	530	5.4	5.96	420	< 0.5	26	1.30	58.0	18	72
105143	255	295	< 5	0.6	0.01	0.01	0.03	1275	2.73	20	11.0	20	< 0.2	4.82	1090	< 0.5	28	1.08	1.0	11	53
105144	255	295	< 5	0.6	0.01	0.01	0.05	1645	2.75	14	6.4	30	< 0.2	5.03	1320	< 0.5	12	0.33	1.5	9	44

* Ba-I RESULTS MAY BE LOW DUE TO PRECIPITATION

CERTIFICATION: Hunter B. Allen



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

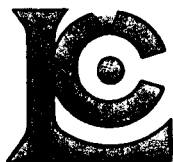
CERTIFICATE OF ANALYSIS

A9624414

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105130	255	295	927	5.14	2.62	0.64	175	44	0.11	98	1430	5200	52	0.15	813	< 10	>10000
105131	255	295	139	2.63	1.22	0.30	180	11	0.06	86	3150	120	105	0.10	226	< 10	722
105132	255	295	59	2.50	1.18	0.34	290	4	0.03	37	2290	48	89	0.08	113	< 10	308
105133	255	295	171	3.02	1.14	0.29	160	33	0.06	112	3670	300	102	0.09	595	230	2090
105134	255	295	188	7.14	1.21	0.29	105	98	0.03	241	4330	490	66	0.11	1700	10	3570
105142	255	295	2680	8.87	0.59	3.60	965	< 1	0.59	4	390	310	45	0.09	42	< 10	4970
105143	255	295	111	6.09	0.49	3.91	935	3	0.09	3	300	44	28	0.07	17	< 10	266
105144	255	295	142	5.96	0.63	3.46	655	1	0.10	4	320	56	12	0.07	16	< 10	478

CERTIFICATION:

* Ba-I RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 4 7 9 1**

BILLING INFORMATION

Date: 31-JUL-96
 Project: WOLVERINE
 P.O. No.:
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9624791

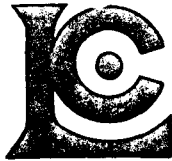
Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
121	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	4216.85
				Total Cost \$ 4216.85
				Client Discount (25%) \$ -1054.21
				Net Cost \$ 3162.64
				(Reg# R100938885) GST \$ 221.38
				TOTAL PAYABLE (CDN) \$ 3384.02



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-A
 Tot QC Pg: 2
 Date: 30-JUL-96
 Invoice #: I9624791
 P.O. #: GP W

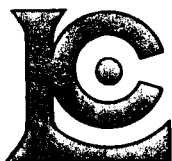
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624791

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std1	2	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std2	3	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	Std1	1	945	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	Std2	2	920	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	----	----	----	----	----	6.78	780	2.0	< 2	2.13	2.0	20	141	217
G90-TOT	Std2	1	----	----	----	----	----	6.65	780	2.0	< 2	2.10	1.5	19	142	213
G90-TOT	Std1	2	----	----	----	----	----	6.61	740	2.0	6	2.10	1.5	19	138	205
G90-TOT	Std2	2	----	----	----	----	----	6.91	770	2.0	2	2.15	2.0	19	133	213
G90-TOT	Std1	3	----	----	----	----	----	7.09	810	2.0	4	2.23	1.5	20	139	217
G90-TOT	Std2	3	----	----	----	----	----	6.40	720	2.0	< 2	2.04	1.5	18	125	201
G90-TOT	Std1	4	----	----	----	----	----	6.76	780	2.0	< 2	2.12	1.5	19	133	208
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	Std1	1	----	68	7.4	170	2.8	----	----	----	----	----	----	----	----	----
GEO-90	Std2	1	----	64	8.2	190	2.8	----	----	----	----	----	----	----	----	----
GEO-90	Std1	2	----	62	7.8	180	2.8	----	----	----	----	----	----	----	----	----
GEO-90	Std2	2	----	64	7.6	190	3.0	----	----	----	----	----	----	----	----	----
GEO-90	Std1	3	----	62	8.2	160	2.6	----	----	----	----	----	----	----	----	----
GEO-90	Std2	3	----	62	7.6	190	2.8	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	3	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.30	40	< 0.5	< 2	0.03	< 0.5	< 1	4	1	2
SIO2-T3	Blnk	2	----	----	----	----	0.30	30	< 0.5	< 2	0.03	< 0.5	< 1	< 1	< 1	1
SIO2-T3	Blnk	3	----	----	----	----	0.26	30	< 0.5	< 2	0.02	< 0.5	< 1	< 1	< 1	< 1
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	5	2
TVB-95	Std2	1	445	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	Std1	3	440	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

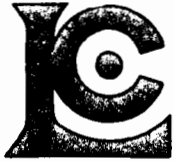
QC Pa: 1-B
 Tot QC Pg: 2
 Date: 30-JUL-96
 Invoice #: I9624791
 P.O. #: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624791

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	Std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.86	1.76	0.99	1040	7	1.73	76	1130	----	319	0.34	104	< 10	236
G90-TOT	Std2	1	3.81	1.75	0.97	1025	7	1.74	72	1090	----	320	0.34	101	< 10	232
G90-TOT	Std1	2	3.77	1.71	0.97	1015	7	1.67	73	1100	----	311	0.33	101	< 10	230
G90-TOT	Std2	2	3.84	1.81	0.99	1045	8	1.76	75	1120	----	321	0.34	103	< 10	238
G90-TOT	Std1	3	3.96	1.86	1.02	1070	8	1.79	79	1150	----	331	0.34	106	< 10	242
G90-TOT	Std2	3	3.63	1.67	0.92	975	7	1.63	73	1070	----	304	0.31	96	< 10	220
G90-TOT	Std1	4	3.84	1.75	0.98	1025	7	1.72	76	1130	----	317	0.34	103	< 10	230
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	192	----	----	----	----	----
GEO-90	Std2	2	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	Std1	3	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	Std2	3	----	----	----	----	----	----	----	----	192	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	3	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.07	0.04	0.01	10	< 1	0.01	< 1	200	----	176	0.02	4	< 10	2
SIO2-T3	Blnk	2	0.06	0.05	0.01	< 5	< 1	0.01	1	190	----	180	0.01	3	< 10	< 2
SIO2-T3	Blnk	3	0.05	0.03	< 0.01	< 5	< 1	0.01	< 1	190	----	170	0.01	1	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
TVB-95	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	Std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

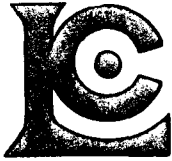
QC Pa. : 2-A
 Tot QC Pg: 2
 Date: 30-JUL-96
 Invoice #: I9624791
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624791

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CHEMEX MEAN	---	448	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
106401	Dup1-01 Orig1-01	5 < 5	10 12	1.0 1.0	10 10	< 0.2 < 0.2	3.15 2.97	3810 3600	1.0 1.0	< 2 < 2	0.07 0.06	< 0.5 < 0.5	8 7	233 222	47 45
106441	Dup2-01 Orig2-01	< 5 < 5	6 6	0.6 0.6	< 10 10	< 0.2 < 0.2	3.24 3.15	1070 2040	0.5 0.5	4 < 2	0.56 0.54	< 0.5 < 0.5	9 9	230 219	74 74
106481	Dup3-01 Orig3-01	< 5 < 5	10 6	0.8 0.6	10 < 10	< 0.2 < 0.2	2.77 2.91	730 750	1.5 2.0	6 < 2	0.37 0.38	0.5 1.0	6 6	169 226	43 45

CERTIFICATION: _____



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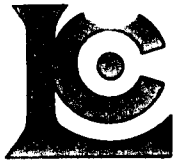
QC Pa. : 2-B
 Tot QC Pg: 2
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Project: WOLVERINE
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QC DATA OF CERTIFICATE A9624791

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CHEMEX MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106401	Dup1-01 Orig1-01	2.20 2.09	1.35 1.25	0.65 0.62	385 360	3 4	0.05 0.04	39 38	480 470	10 10	19 18	0.18 0.17	111 106	< 10 < 10	114 108
106441	Dup2-01 Orig2-01	2.25 2.18	1.11 1.09	1.04 1.01	1020 990	1 1	0.07 0.08	35 33	380 370	8 6	159 158	0.15 0.16	76 74	< 10 < 10	76 74
106481	Dup3-01 Orig3-01	0.85 0.88	0.95 0.99	0.32 0.34	145 150	5 6	0.05 0.06	33 35	110 100	28 28	52 55	0.09 0.09	89 93	< 10 < 10	332 348

CERTIFICATION: Hart Buchler



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A9624791

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE	A9624791
--------------------	-----------------

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 30-JUL-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	121	Geochem ring to approx 150 mesh
226	121	0-3 Kg crush and split
3202	121	Rock - save entire reject
285	121	ICP - HF digestion charge
287	121	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	121	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	121	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	121	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	121	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	121	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	121	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	121	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	121	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	121	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	121	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	121	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	121	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	121	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	121	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	121	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	121	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	121	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	121	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	121	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	121	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	121	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	121	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	121	Pb ppm: 24 element, rock & core	AAS	2	10000
582	121	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	121	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	121	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	121	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	121	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page : 1-A
 Total : 4
 Certificate Date: 30-JUL-96
 Invoice No. : I9624791
 P.O. Number :
 Account : GP W

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106401	205 226	< 5	12	1.0	10	< 0.2	2.97	3600	1.0	< 2	0.06	< 0.5	7	222	45
106402	205 226	< 5	42	1.6	10	< 0.6	7.46	3570	0.5	< 2	0.27	< 0.5	15	145	96
106403	205 226	< 5	2	1.2	20	< 0.2	4.05	4620	1.5	2	0.12	< 0.5	16	173	56
106404	205 226	< 5	1	1.2	10	< 0.2	5.30	2630	0.5	2	1.82	< 0.5	26	177	59
106405	205 226	< 5	1	1.0	< 10	< 0.2	6.93	2470	0.5	< 2	3.51	< 0.5	40	183	27
106406	205 226	< 5	2	0.8	< 10	< 0.2	6.90	4810	< 0.5	< 2	3.74	< 0.5	41	153	49
106407	205 226	< 5	2	0.8	10	< 0.2	3.15	2180	0.5	2	0.64	< 0.5	9	173	80
106408	205 226	< 5	1	1.0	< 10	< 0.2	1.70	1110	< 0.5	< 2	0.32	0.5	5	203	22
106409	205 226	< 5	2	1.0	< 10	< 0.2	3.27	3010	1.0	< 2	0.16	< 0.5	9	156	84
106410	205 226	< 5	1	1.2	< 10	< 0.2	2.90	3740	0.5	< 2	0.07	< 0.5	7	179	58
106411	205 226	< 5	2	0.8	< 10	< 0.2	3.35	4300	1.0	< 2	0.08	< 0.5	12	163	89
106412	205 226	< 5	2	0.6	< 10	< 0.2	2.87	3420	0.5	< 2	0.08	< 0.5	10	190	60
106413	205 226	< 5	24	0.8	< 10	< 0.2	5.90	5540	1.5	2	0.19	< 0.5	27	165	82
106414	205 226	< 5	16	0.8	< 10	< 0.2	3.82	3900	1.0	< 2	0.20	< 0.5	21	147	89
106415	205 226	< 5	16	0.8	< 10	< 0.2	6.25	6200	2.0	< 2	0.34	< 0.5	13	75	34
106416	205 226	< 5	12	0.8	10	< 0.2	4.67	4580	1.5	< 2	0.24	< 0.5	19	112	87
106417	205 226	< 5	10	1.2	< 10	< 0.2	5.23	5280	1.5	< 2	0.37	< 0.5	20	124	87
106418	205 226	< 5	2	0.6	10	< 0.2	3.41	4670	1.0	< 2	0.11	< 0.5	13	118	78
106419	205 226	< 5	4	0.8	< 10	< 0.2	3.13	4330	0.5	< 2	0.09	< 0.5	9	204	67
106420	205 226	< 5	2	2.0	40	< 0.2	3.43	4860	1.0	< 2	0.11	< 0.5	12	217	92
106421	205 226	< 5	4	0.4	20	17.0	2.34	3240	0.5	< 2	0.06	< 0.5	9	258	71
106422	205 226	< 5	4	0.8	< 10	0.2	1.94	2540	0.5	< 2	0.16	< 0.5	10	103	37
106423	205 226	< 5	2	0.4	20	< 0.2	2.53	3790	0.5	< 2	0.11	< 0.5	12	130	51
106424	205 226	< 5	1	0.6	10	< 0.2	2.79	4250	0.5	< 2	0.07	< 0.5	17	113	51
106425	205 226	< 5	2	0.8	20	< 0.2	3.64	5730	1.0	< 2	0.12	< 0.5	12	200	60
106426	205 226	< 5	6	1.0	40	0.4	2.79	4610	0.5	< 2	0.09	< 0.5	11	254	79
106427	205 226	< 5	2	1.2	10	< 0.2	3.43	5750	1.0	< 2	0.12	< 0.5	13	106	59
106428	205 226	< 5	12	15.5	150	0.4	3.11	4490	0.5	< 2	0.11	< 0.5	14	172	54
106429	205 226	< 5	4	1.0	< 10	< 0.2	3.27	4010	0.5	< 2	0.11	< 0.5	11	100	61
106430	205 226	< 5	4	1.4	10	< 0.2	3.44	4650	1.0	< 2	0.28	< 0.5	11	203	80
106431	205 226	< 5	6	1.8	20	< 0.2	4.03	1050	1.5	2	0.90	< 0.5	12	197	68
106432	205 226	< 5	6	1.6	40	< 0.2	2.97	2470	0.5	2	0.08	< 0.5	9	155	73
106433	205 226	5	2	1.4	30	< 0.2	3.27	6770	1.0	< 2	0.30	< 0.5	12	227	76
106434	205 226	< 5	2	1.0	10	< 0.2	3.84	3010	1.0	< 2	0.09	< 0.5	12	192	75
106435	205 226	< 5	4	1.0	10	< 0.2	3.34	4370	1.0	< 2	0.12	< 0.5	12	182	86
106436	205 226	< 5	14	1.6	20	< 0.2	2.52	1270	0.5	< 2	0.06	< 0.5	8	213	64
106437	205 226	< 5	12	1.6	30	< 0.2	2.67	3750	0.5	< 2	0.10	< 0.5	14	111	77
106438	205 226	< 5	10	1.2	30	< 0.2	2.94	4560	0.5	< 2	0.06	< 0.5	9	193	71
106439	205 226	< 5	6	1.4	30	< 0.2	2.89	4400	0.5	< 2	0.08	< 0.5	11	138	78
106440	205 226	< 5	6	1.0	< 10	< 0.2	3.22	4360	0.5	< 2	0.20	< 0.5	11	153	66

CERTIFICATION: H. Tucker



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

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Total F : 4
Certificate Date: 30-JUL-96
Invoice No. : 19624791
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106401	205 226	2.09	1.25	0.62	360	4	0.04	38	470	10	18	0.17	106	< 10	108
106402	205 226	9.04	1.28	2.59	1880	< 1	0.45	38	1770	< 2	34	1.32	346	< 10	272
106403	205 226	2.73	1.63	1.00	2030	1	0.05	76	650	< 2	26	0.27	98	< 10	208
106404	205 226	4.60	0.72	1.90	1515	< 1	1.80	62	870	< 2	156	0.61	167	< 10	202
106405	205 226	6.70	2.61	3.02	1305	< 1	3.20	60	1260	< 2	396	0.99	264	< 10	206
106406	205 226	7.56	0.93	2.86	2250	< 1	3.51	44	1040	< 2	386	0.91	261	< 10	152
106407	205 226	1.87	0.32	0.95	775	1	1.14	36	360	18	80	0.19	80	< 10	76
106408	205 226	1.26	0.24	0.39	3570	5	0.19	43	1050	18	43	0.18	55	< 10	84
106409	205 226	2.08	1.01	0.62	710	1	0.03	43	550	2	22	0.19	84	< 10	112
106410	205 226	1.59	1.23	0.60	780	1	0.03	26	350	< 2	15	0.17	79	< 10	70
106411	205 226	2.07	1.42	0.70	1080	1	0.04	38	440	6	20	0.20	86	< 10	88
106412	205 226	1.85	1.07	0.62	375	2	0.09	33	300	6	13	0.16	80	< 10	78
106413	205 226	5.95	1.70	1.88	4560	2	0.15	54	860	12	73	0.57	176	< 10	160
106414	205 226	2.93	1.20	0.76	4730	1	0.09	70	510	14	57	0.21	84	< 10	132
106415	205 226	3.42	1.93	1.08	1970	1	0.36	36	690	6	54	0.29	61	< 10	118
106416	205 226	3.09	1.34	0.88	3770	1	0.24	80	550	10	45	0.27	96	< 10	166
106417	205 226	4.59	1.51	1.15	2660	2	0.07	53	1060	6	60	0.44	166	< 10	146
106418	205 226	2.24	1.32	0.59	1825	1	0.04	46	490	6	35	0.18	101	< 10	110
106419	205 226	1.73	1.24	0.54	985	1	0.03	40	400	< 2	21	0.17	73	< 10	114
106420	205 226	2.39	1.36	0.64	1990	3	0.05	52	500	< 2	41	0.20	81	< 10	140
106421	205 226	1.49	0.71	0.50	590	1	0.02	29	260	2	20	0.14	46	< 10	56
106422	205 226	1.55	0.54	0.29	4020	5	0.03	43	610	18	50	0.16	46	< 10	116
106423	205 226	1.67	0.78	0.40	1445	< 1	0.03	31	410	4	31	0.15	51	< 10	74
106424	205 226	1.52	0.76	0.29	1935	1	0.03	31	260	< 2	30	0.17	45	< 10	68
106425	205 226	1.93	1.32	0.61	1180	1	0.03	53	490	< 2	37	0.20	80	< 10	130
106426	205 226	2.24	1.07	0.33	3180	3	0.04	75	630	2	34	0.13	68	< 10	198
106427	205 226	1.64	1.40	0.44	3220	< 1	0.04	64	540	< 2	48	0.19	84	< 10	156
106428	205 226	5.88	1.11	0.34	3040	3	0.03	68	620	< 2	42	0.16	69	< 10	194
106429	205 226	1.73	1.05	0.47	2150	1	0.05	40	420	< 2	37	0.18	71	< 10	104
106430	205 226	1.99	1.29	0.73	735	1	0.05	39	400	6	57	0.19	82	< 10	80
106431	205 226	2.21	1.59	0.84	1010	1	0.07	40	490	< 2	160	0.20	85	< 10	80
106432	205 226	1.73	1.05	0.51	605	2	0.06	33	250	< 2	24	0.15	77	< 10	70
106433	205 226	2.14	1.32	0.56	1475	1	0.06	37	340	2	121	0.17	63	< 10	82
106434	205 226	2.21	1.33	0.61	935	3	0.06	40	380	4	52	0.20	87	< 10	84
106435	205 226	2.23	1.04	0.72	835	< 1	0.04	41	250	2	47	0.17	80	< 10	80
106436	205 226	1.56	0.88	0.36	1215	2	0.04	27	210	< 2	27	0.12	62	< 10	60
106437	205 226	2.29	0.89	0.22	3920	1	0.03	51	500	2	85	0.13	73	< 10	130
106438	205 226	1.76	1.02	0.50	880	2	0.04	38	250	2	34	0.16	70	< 10	66
106439	205 226	1.89	1.01	0.53	905	< 1	0.04	33	350	2	41	0.16	71	< 10	68
106440	205 226	2.04	1.11	0.78	910	< 1	0.11	31	280	< 2	77	0.15	65	< 10	62

CERTIFICATION:

Hart Buchler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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Page 1 of 2-A
Total F : 4
Certificate Date: 30-JUL-96
Invoice No. : 19624791
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106441	205 226	< 5	6	0.6	10	< 0.2	3.15	2040	0.5	< 2	0.54	< 0.5	9	219	74
106442	205 226	< 5	6	0.8	< 10	< 0.2	3.36	3750	0.5	< 2	0.34	< 0.5	10	170	72
106443	205 226	< 5	4	0.4	< 10	< 0.2	2.73	2400	0.5	< 2	0.24	< 0.5	9	178	67
106444	205 226	< 5	6	0.6	< 10	< 0.2	3.41	830	0.5	< 2	0.46	< 0.5	12	232	70
106445	205 226	< 5	1	0.4	< 10	< 0.2	2.99	590	0.5	< 2	0.37	< 0.5	8	242	71
106446	205 226	10	4	0.6	< 10	< 0.2	2.88	840	0.5	< 2	0.63	< 0.5	8	259	84
106447	205 226	65	4	0.4	< 10	< 0.2	3.16	930	0.5	< 2	0.52	< 0.5	6	201	69
106448	205 226	10	4	1.0	10	< 0.2	3.37	840	0.5	< 2	0.53	< 0.5	7	232	73
106449	205 226	< 5	10	1.0	10	< 0.2	3.32	850	0.5	< 2	1.08	< 0.5	7	217	68
106450	205 226	10	4	0.8	< 10	< 0.2	2.69	700	0.5	< 2	0.17	< 0.5	8	189	76
106451	205 226	< 5	12	1.2	30	< 0.2	3.30	620	1.0	< 2	0.37	< 0.5	9	231	76
106452	205 226	< 5	6	0.6	10	< 0.2	3.17	870	0.5	< 2	0.27	< 0.5	9	233	77
106453	205 226	< 5	4	0.4	< 10	< 0.2	3.22	4500	0.5	< 2	0.22	< 0.5	13	242	79
106454	205 226	< 5	2	0.4	< 10	< 0.2	3.48	3110	1.0	< 2	0.21	< 0.5	12	279	75
106455	205 226	< 5	2	0.2	< 10	< 0.2	3.80	1990	1.0	< 2	0.13	< 0.5	14	188	72
106456	205 226	< 5	1	0.4	10	< 0.2	4.53	4860	1.5	6	0.34	< 0.5	17	273	93
106457	205 226	< 5	8	0.4	10	< 0.2	3.50	1440	1.0	< 2	0.25	< 0.5	14	184	79
106458	205 226	< 5	6	0.6	< 10	< 0.2	3.21	2590	0.5	< 2	1.12	< 0.5	10	210	68
106459	205 226	< 5	10	1.2	10	< 0.2	2.43	1570	0.5	< 2	4.30	< 0.5	8	294	26
106460	205 226	< 5	4	0.8	10	< 0.2	3.40	400	1.0	2	2.23	< 0.5	9	282	56
106461	205 226	< 5	2	0.6	< 10	< 0.2	3.48	1020	1.0	< 2	0.83	< 0.5	10	221	61
106462	205 226	< 5	10	0.6	< 10	< 0.2	2.94	430	1.0	< 2	0.22	< 0.5	9	268	133
106463	205 226	< 5	42	1.2	10	< 0.2	5.05	350	1.5	< 2	0.34	< 0.5	9	297	74
106464	205 226	< 5	4	0.8	< 10	< 0.2	3.34	2110	1.0	< 2	0.12	< 0.5	8	257	81
106465	205 226	< 5	4	0.8	< 10	< 0.2	2.45	650	0.5	< 2	0.36	< 0.5	11	153	63
106466	205 226	< 5	8	1.0	< 10	< 0.2	2.10	460	0.5	< 2	0.08	< 0.5	4	274	60
106467	205 226	< 5	4	1.0	10	< 0.2	1.89	590	1.5	< 2	0.08	< 0.5	4	245	66
106468	205 226	< 5	8	1.2	10	< 0.2	1.90	230	1.5	< 2	0.16	< 0.5	4	214	78
106469	205 226	< 5	86	5.6	180	< 0.2	2.60	90	< 0.5	< 2	2.09	< 0.5	4	235	9
106470	205 226	< 5	182	9.6	620	< 0.2	3.97	60	0.5	< 2	1.90	< 0.5	7	191	35
106471	205 226	< 5	8	0.8	< 10	< 0.2	3.38	170	2.0	< 2	0.87	< 0.5	14	314	76
106472	205 226	< 5	2	4.6	40	0.4	1.13	230	< 0.5	< 2	3.66	< 0.5	14	103	42
106473	205 226	< 5	30	1.0	20	0.4	4.05	700	3.0	< 2	0.56	< 0.5	29	239	81
106474	205 226	< 5	18	1.4	< 10	< 0.2	2.17	360	1.0	< 2	5.98	1.5	30	145	78
106475	205 226	< 5	10	0.8	< 10	0.2	4.43	210	3.0	< 2	1.33	0.5	22	270	140
106476	205 226	< 5	4	0.8	< 10	< 0.2	4.47	470	4.5	< 2	0.30	0.5	9	145	53
106477	205 226	< 5	2	0.6	< 10	< 0.2	7.73	5130	5.5	4	0.80	< 0.5	7	73	9
106478	205 226	< 5	16	1.2	80	< 0.2	4.26	270	4.0	< 2	1.03	2.5	8	178	63
106479	205 226	< 5	14	1.2	680	1.2	2.09	470	2.5	2	0.60	6.0	8	176	51
106480	205 226	< 5	6	0.8	150	0.4	3.37	670	3.0	< 2	0.18	2.5	5	99	48

CERTIFICATION:

Terry Tucker



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WESTMIN RESOURCES LTD.
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Page 1 of 2-B
Total F : 4
Certificate Date: 30-JUL-96
Invoice No. : I9624791
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106441	205 226	2.18	1.09	1.01	990	1	0.08	33	370	6	158	0.16	74	< 10	74
106442	205 226	2.05	1.17	0.86	950	1	0.09	33	290	< 2	97	0.18	71	< 10	68
106443	205 226	1.66	1.01	0.72	685	3	0.04	30	240	< 2	83	0.14	68	< 10	58
106444	205 226	2.27	1.00	0.92	2500	12	0.36	37	320	4	137	0.15	83	< 10	70
106445	205 226	1.95	1.08	0.84	1065	1	0.05	31	240	< 2	102	0.13	78	< 10	58
106446	205 226	2.00	1.04	0.86	1280	1	0.06	32	200	< 2	149	0.13	85	< 10	64
106447	205 226	1.96	1.10	0.91	1030	1	0.17	26	160	4	125	0.14	93	< 10	60
106448	205 226	2.12	1.24	0.91	1090	1	0.11	33	230	4	121	0.15	96	< 10	64
106449	205 226	2.08	1.16	0.97	2130	1	0.14	28	470	8	224	0.14	94	< 10	62
106450	205 226	1.73	0.92	0.66	1200	< 1	0.03	30	240	< 2	59	0.12	68	< 10	56
106451	205 226	2.03	1.09	0.82	1195	< 1	0.06	35	200	< 2	101	0.14	88	< 10	66
106452	205 226	2.06	0.97	0.92	1360	1	0.17	32	220	< 2	93	0.16	78	< 10	62
106453	205 226	2.05	1.21	0.95	1570	1	0.04	35	280	< 2	84	0.15	70	< 10	72
106454	205 226	2.18	1.28	0.88	1355	< 1	0.07	37	270	4	63	0.15	66	< 10	68
106455	205 226	2.47	0.95	0.90	1205	< 1	0.05	46	370	6	48	0.20	84	< 10	86
106456	205 226	2.97	1.57	1.11	1640	< 1	0.05	44	390	4	80	0.22	85	< 10	100
106457	205 226	2.35	1.08	0.89	1250	2	0.12	42	300	2	65	0.17	73	< 10	80
106458	205 226	2.04	1.20	0.91	1195	1	0.04	32	440	4	99	0.15	66	< 10	76
106459	205 226	1.62	0.94	1.17	1070	1	0.03	26	910	< 2	325	0.14	57	< 10	66
106460	205 226	2.08	1.33	1.07	1210	3	0.09	32	560	6	191	0.16	77	< 10	70
106461	205 226	2.07	1.31	0.93	850	1	0.06	36	330	8	118	0.14	69	< 10	78
106462	205 226	2.02	1.01	0.60	615	< 1	0.05	38	280	< 2	59	0.13	70	< 10	62
106463	205 226	2.68	1.76	0.86	995	2	0.12	73	290	< 2	95	0.24	147	< 10	130
106464	205 226	1.95	1.13	0.50	750	< 1	0.05	46	190	< 2	38	0.18	98	< 10	70
106465	205 226	3.58	0.68	0.48	>10000	5	0.03	45	940	< 2	88	0.13	79	< 10	134
106466	205 226	1.43	0.50	0.19	575	4	0.03	35	140	4	33	0.09	70	< 10	86
106467	205 226	0.92	0.69	0.21	325	1	0.02	30	70	4	35	0.08	70	< 10	54
106468	205 226	1.47	0.43	0.19	400	5	0.02	36	420	< 2	43	0.08	85	< 10	108
106469	205 226	3.96	0.04	0.69	1715	1	0.01	30	230	10	60	0.03	36	< 10	102
106470	205 226	10.30	0.07	0.58	2010	< 1	0.06	68	800	34	80	0.07	100	< 10	60
106471	205 226	2.91	0.78	0.34	1475	1	0.05	37	1370	8	78	0.15	291	< 10	28
106472	205 226	19.75	0.10	1.66	>10000	< 1	0.01	33	590	48	316	0.04	94	< 10	56
106473	205 226	2.11	1.59	0.34	655	2	0.08	65	1430	80	68	0.16	224	< 10	38
106474	205 226	10.70	0.60	1.67	>10000	2	0.01	57	910	174	453	0.10	154	< 10	524
106475	205 226	3.39	0.91	0.57	3280	2	0.07	39	580	28	213	0.18	170	< 10	186
106476	205 226	2.38	1.88	0.46	380	1	0.08	38	280	6	36	0.18	134	< 10	118
106477	205 226	1.79	3.75	0.97	350	3	0.14	11	190	18	55	0.17	29	< 10	200
106478	205 226	2.03	1.89	0.60	635	5	0.14	38	390	92	110	0.15	128	< 10	834
106479	205 226	0.96	0.61	0.34	160	10	0.18	40	420	174	174	0.09	99	< 10	2790
106480	205 226	0.94	1.52	0.40	60	3	0.07	19	120	52	58	0.12	104	< 10	632

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

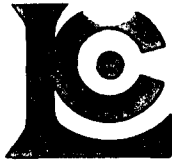
Page 1 of 3-A
 Total F : 4
 Certificate Date: 30-JUL-96
 Invoice No. : 19624791
 P.O. Number :
 Account : GPW

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106481	205 226	< 5	6	0.6	< 10	< 0.2	2.91	750	2.0	< 2	0.38	1.0	6	226	45
106482	205 226	< 5	14	1.0	< 10	< 0.2	1.85	260	0.5	< 2	0.21	< 0.5	4	153	58
106483	205 226	< 5	22	1.2	10	1.0	2.00	300	0.5	< 2	0.11	< 0.5	4	241	63
106484	205 226	< 5	16	1.4	10	0.6	1.77	270	0.5	< 2	0.27	< 0.5	5	199	85
106485	205 226	< 5	14	1.0	20	0.4	1.82	400	0.5	< 2	0.15	< 0.5	4	253	60
106486	205 226	< 5	52	1.0	< 10	0.4	2.70	320	0.5	< 2	0.30	< 0.5	7	166	59
106487	205 226	10	4	5.8	< 10	< 0.2	3.21	3080	1.0	< 2	0.33	< 0.5	9	197	54
106488	205 226	< 5	4	0.8	< 10	< 0.2	3.69	2140	1.0	< 2	0.21	< 0.5	8	188	57
106489	205 226	15	6	4.4	10	0.4	3.65	340	1.5	< 2	0.34	< 0.5	8	239	52
106490	205 226	10	2	1.2	10	0.4	3.71	280	1.0	< 2	0.37	< 0.5	8	178	53
106491	205 226	< 5	4	1.0	< 10	0.4	2.80	410	1.0	< 2	0.22	< 0.5	5	125	57
106492	205 226	< 5	2	1.0	< 10	< 0.2	2.52	2550	0.5	< 2	0.18	< 0.5	5	98	54
106493	205 226	< 5	16	1.0	< 10	0.6	2.96	450	1.0	< 2	0.24	< 0.5	9	149	73
106494	205 226	< 5	8	0.8	< 10	< 0.2	2.40	760	0.5	6	0.42	< 0.5	7	173	81
106495	205 226	< 5	36	1.4	10	0.8	1.76	390	0.5	< 2	0.24	< 0.5	6	219	50
106496	205 226	< 5	46	1.4	10	0.4	2.01	390	0.5	2	0.20	< 0.5	7	168	67
106497	205 226	10	18	1.8	30	0.4	2.40	310	0.5	< 2	0.23	< 0.5	5	234	56
106498	205 226	< 5	22	1.6	10	0.4	3.67	440	1.5	< 2	0.22	< 0.5	6	140	69
106499	205 226	5	22	1.4	10	1.0	3.06	360	1.0	< 2	0.30	< 0.5	4	158	56
106500	205 226	< 5	22	1.4	< 10	1.6	2.90	390	1.5	< 2	0.36	0.5	5	121	41
106601	205 226	< 5	24	1.2	< 10	0.4	2.30	400	1.0	< 2	0.28	< 0.5	5	150	49
106602	205 226	< 5	20	2.0	20	< 0.2	1.61	140	1.0	< 2	0.18	< 0.5	4	165	47
106603	205 226	< 5	4	3.8	60	< 0.2	1.81	210	0.5	< 2	0.51	0.5	6	218	38
106604	205 226	< 5	4	1.6	30	< 0.2	2.39	530	1.0	< 2	0.52	< 0.5	6	162	45
106605	205 226	< 5	6	0.8	30	< 0.2	2.62	580	0.5	< 2	2.09	0.5	8	184	38
106606	205 226	< 5	10	0.6	10	< 0.2	2.63	380	2.0	< 2	1.34	< 0.5	12	171	112
106607	205 226	< 5	80	0.4	< 10	< 0.2	3.10	610	1.5	< 2	2.24	0.5	9	224	65
106608	205 226	< 5	18	2.6	60	0.8	7.17	60	1.5	< 2	5.15	7.0	21	143	77
106609	205 226	10	24	3.6	50	0.8	2.61	50	2.0	< 2	3.75	6.5	7	236	45
106610	205 226	< 5	24	0.6	30	< 0.2	6.65	410	2.5	< 2	7.92	3.0	19	78	32
106611	205 226	< 5	148	1.2	50	1.0	5.92	100	2.5	< 2	4.09	6.5	10	167	31
106612	205 226	< 5	66	0.8	50	0.2	6.71	730	2.0	< 2	4.82	1.5	23	226	59
106613	205 226	< 5	62	3.0	130	1.2	7.26	110	6.0	< 2	2.04	3.0	6	83	69
106614	205 226	< 5	80	0.6	< 10	< 0.2	6.51	1210	< 0.5	< 2	4.38	< 0.5	25	265	56
106615	205 226	< 5	80	0.6	< 10	< 0.2	6.10	2140	0.5	< 2	8.02	< 0.5	25	313	51
106616	205 226	< 5	36	3.0	560	< 0.2	6.63	380	2.5	< 2	7.96	7.0	19	269	56
106617	205 226	< 5	32	1.2	150	0.4	7.50	1000	3.0	< 2	5.29	1.5	25	285	48
106618	205 226	20	34	5.2	420	2.2	2.66	30	2.0	< 2	2.17	15.5	9	222	47
106619	205 226	< 5	12	3.8	170	< 0.2	6.26	220	5.5	< 2	2.16	2.0	9	188	56
106620	205 226	< 5	8	3.0	40	< 0.2	3.15	470	2.0	< 2	0.59	< 0.5	8	232	60

CERTIFICATION: Hart Bickler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 1 of 3-B
Total F : 4
Certificate Date: 30-JUL-96
Invoice No. : I9624791
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106481	205 226	0.88	0.99	0.34	150	6	0.06	35	100	28	55	0.09	93	< 10	348
106482	205 226	0.92	0.41	0.21	95	4	0.03	32	60	< 2	65	0.06	67	< 10	96
106483	205 226	1.11	0.65	0.23	60	3	0.04	37	70	< 2	73	0.07	76	< 10	48
106484	205 226	1.14	0.32	0.20	110	2	0.03	40	290	< 2	120	0.06	74	< 10	76
106485	205 226	1.07	0.49	0.22	75	2	0.04	34	80	< 2	88	0.06	71	< 10	50
106486	205 226	2.11	1.00	0.55	565	1	0.07	42	340	< 2	194	0.14	65	< 10	72
106487	205 226	2.08	1.19	0.88	335	3	0.09	36	300	< 2	242	0.15	69	< 10	188
106488	205 226	2.32	1.24	0.74	290	< 1	0.06	38	280	< 2	109	0.17	87	< 10	86
106489	205 226	2.26	1.24	0.65	125	1	0.06	44	250	< 2	162	0.17	119	< 10	90
106490	205 226	2.52	1.32	0.71	445	1	0.06	57	280	6	166	0.18	137	< 10	134
106491	205 226	1.55	0.97	0.40	195	< 1	0.06	34	140	< 2	93	0.15	85	< 10	60
106492	205 226	1.18	1.01	0.37	125	2	0.04	45	160	< 2	106	0.12	70	< 10	68
106493	205 226	1.75	0.98	0.52	130	3	0.44	67	130	4	110	0.13	76	< 10	74
106494	205 226	1.49	0.84	0.48	175	2	0.20	47	150	< 2	223	0.10	70	< 10	76
106495	205 226	0.98	0.64	0.26	110	2	0.16	42	130	< 2	125	0.06	58	< 10	50
106496	205 226	1.15	0.73	0.28	125	3	0.08	63	90	< 2	89	0.07	82	< 10	94
106497	205 226	1.28	0.90	0.34	155	1	0.09	39	80	< 2	109	0.09	89	< 10	42
106498	205 226	1.52	1.45	0.43	100	1	0.07	32	100	< 2	89	0.14	92	< 10	36
106499	205 226	1.58	1.21	0.36	205	1	0.09	18	110	< 2	112	0.11	68	< 10	42
106500	205 226	1.48	1.40	0.38	280	1	0.17	33	120	< 2	140	0.11	69	< 10	188
106601	205 226	1.02	0.89	0.26	120	1	0.21	31	100	8	73	0.11	80	< 10	102
106602	205 226	1.52	0.49	0.17	90	3	0.02	34	70	24	15	0.06	81	< 10	474
106603	205 226	2.18	0.19	0.16	195	1	0.01	49	140	58	15	0.07	71	< 10	534
106604	205 226	1.23	0.40	0.19	205	1	0.03	38	220	42	14	0.09	100	< 10	254
106605	205 226	1.32	0.11	0.28	510	2	0.01	27	210	100	83	0.06	44	< 10	318
106606	205 226	1.51	1.04	0.32	440	1	0.10	29	350	128	61	0.09	130	< 10	160
106607	205 226	1.55	0.68	0.30	885	1	0.06	32	610	44	87	0.14	128	< 10	348
106608	205 226	7.11	0.50	0.56	2180	3	0.15	80	730	680	96	0.23	129	< 10	1670
106609	205 226	4.27	1.13	0.30	555	< 1	0.03	25	130	196	119	0.10	86	< 10	1080
106610	205 226	5.54	2.57	0.89	1205	< 1	0.75	29	2090	14	473	1.23	191	< 10	684
106611	205 226	2.51	1.69	1.47	810	2	1.70	28	270	240	230	0.12	63	< 10	1280
106612	205 226	3.85	1.75	3.02	895	1	1.21	59	370	88	158	0.10	103	< 10	300
106613	205 226	3.36	3.55	1.34	435	11	0.37	14	330	480	94	0.16	36	< 10	904
106614	205 226	4.38	1.65	3.53	725	< 1	1.98	78	350	< 2	193	0.12	136	< 10	58
106615	205 226	4.02	1.94	2.51	1130	< 1	0.81	72	380	< 2	274	0.13	131	10	70
106616	205 226	4.00	3.07	1.50	1215	< 1	0.16	53	740	124	269	0.26	144	10	1570
106617	205 226	3.83	3.78	1.91	855	< 1	0.15	67	950	26	175	0.32	176	10	338
106618	205 226	5.29	1.17	0.32	295	3	0.02	34	370	400	28	0.11	86	< 10	2360
106619	205 226	2.51	3.44	1.27	560	8	0.11	34	290	110	77	0.20	66	< 10	680
106620	205 226	1.29	1.66	0.52	305	1	0.06	64	220	4	30	0.13	100	< 10	116

CERTIFICATION:

Hans Buchler



Chemex Labs Ltd.

Analytical Chemists *Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

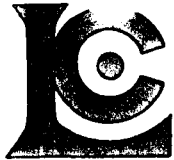
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Total Pages : 4
Certificate Date: 30-JUL-96
Invoice No. : 19624791
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106687	205 226	< 5	22	3.0	60	< 0.2	3.16	300	0.5	< 2	1.91	0.5	6	174	28

CERTIFICATION: Hart Bickler



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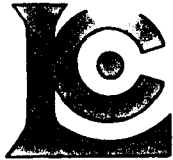
Project : WOLVERINE
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CERTIFICATE OF ANALYSIS A9624791

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106687	205	226	2.12	0.05	0.33	675	1	0.02	42	300	60	29	0.10	78	< 10	318

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 4 7 9 2

BILLING INFORMATION

Date: 31-JUL-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9624792

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
66	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	2392.50
				Total Cost \$ 2392.50
				Client Discount (25%) \$ -598.13
				Net Cost \$ 1794.37
				(Reg# R100938885) GST \$ 125.61
				TOTAL PAYABLE (CDN) \$ 1919.98

COPY



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WESTMIN RESOURCES LTD.
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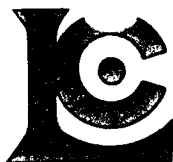
QC Pa 1-A
 Tot QC 1
 Date: 30-JUL-96
 Invoice #: I9624792
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624792

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	2	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	81	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	std1	1	955	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	std2	2	935	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.79	790	1.5	< 2	2.12	1.5	19	138	221
G90-TOT	std2	1	----	----	----	----	----	7.13	810	1.5	4	2.23	2.0	20	139	224
G90-TOT	std1	2	----	----	----	----	----	6.50	730	1.5	2	1.97	0.5	17	127	209
G90-TOT	std2	2	----	----	----	----	----	7.05	810	2.0	< 2	2.27	1.5	22	145	232
CHEMEX MEAN	----	----	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	62	7.8	170	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	64	7.4	210	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	66	8.2	220	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	66	7.8	180	3.0	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.95	50	< 0.5	< 2	0.64	< 0.5	4	23	9	
CHEMEX MEAN	----	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	
TVB-95	std2	1	445	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	448	----	----	----	----	----	----	----	----	----	----	----	----	----
106621	Dup1-01		< 5	30	1.8	30	< 0.2	3.65	260	1.5	< 2	0.66	< 0.5	7	217	46
	Orig1-01		< 5	34	1.8	10	< 0.2	3.61	280	1.5	< 2	0.65	< 0.5	7	209	47
106661	Dup2-01		< 5	30	4.6	90	0.6	3.04	50	2.5	< 2	0.42	3.0	13	297	61
	Orig2-01		< 5	30	4.4	110	0.6	2.88	50	2.0	< 2	0.42	2.5	15	291	58

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

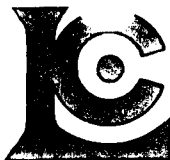
QC Pa: 1-B
 Tot QC: 1
 Date: 30-JUL-96
 Invoice #: I9624792
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9624792

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93 CHEMEX MEAN	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	std1	1	3.87	1.62	0.99	970	7	1.78	73	1100	-----	327	0.34	100	< 10	236
	std2	1	4.00	1.71	1.03	1020	8	1.80	77	1180	-----	335	0.35	106	< 10	252
	std1	2	3.70	1.65	0.93	955	7	1.66	69	1060	-----	303	0.33	92	< 10	226
	std2	2	4.09	1.85	1.03	1105	7	1.93	80	1180	-----	341	0.36	110	30	252
	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90 CHEMEX MEAN	std1	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
	std2	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
	std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
	std2	2	----	----	----	----	----	----	----	----	200	----	----	----	----	----
	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.73	0.10	0.29	105	< 1	0.15	5	110	-----	61	0.08	30	< 10	10
	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
TVB-95 CHEMEX MEAN	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
106621	Dup1-01		1.48	1.70	0.50	320	1	0.09	57	90	8	31	0.16	101	< 10	84
	Orig1-01		1.47	1.63	0.49	315	1	0.09	57	100	10	30	0.16	99	< 10	82
106661	Dup2-01		3.92	1.06	0.28	600	5	0.06	74	690	20	48	0.10	137	< 10	1275
	Orig2-01		3.74	1.06	0.27	605	4	0.06	82	640	14	47	0.09	141	10	1240

CERTIFICATION: Hunter Buchanan



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

A9624792

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9624792

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

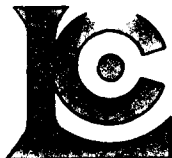
Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	66	Geochem ring to approx 150 mesh
294	66	4-7 Kg crush and split
3202	66	Rock - save entire reject
285	66	ICP - HF digestion charge
287	66	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	66	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	66	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	66	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	66	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	66	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	66	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	66	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	66	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	66	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	66	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	66	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	66	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	66	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	66	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	66	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	66	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	66	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	66	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	66	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	66	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	66	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	66	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	66	Pb ppm: 24 element, rock & core	AAS	2	10000
582	66	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	66	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	66	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	66	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	66	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page: 1 of 1-A
 Total: 2
 Certificate Date: 30-JUL-96
 Invoice No.: I9624792
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624792

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106621	205 294	< 5	34	1.8	10	< 0.2	3.61	280	1.5	< 2	0.65	< 0.5	7	209	47
106622	205 294	< 5	12	1.0	< 10	< 0.2	2.24	240	1.5	< 2	0.89	< 0.5	5	192	22
106623	205 294	< 5	14	1.8	30	< 0.2	2.73	110	1.5	< 2	1.65	< 0.5	9	163	52
106624	205 294	< 5	4	2.0	< 10	< 0.2	3.20	270	1.5	< 2	0.86	< 0.5	9	188	48
106625	205 294	< 5	1	0.4	< 10	< 0.2	3.69	410	0.5	< 2	0.47	< 0.5	8	142	63
106626	205 294	< 5	2	0.6	< 10	< 0.2	2.40	300	0.5	< 2	0.64	< 0.5	6	168	56
106627	205 294	< 5	10	1.0	20	< 0.2	3.01	220	2.0	< 2	1.02	< 0.5	10	229	53
106628	205 294	30	34	6.4	90	0.6	3.46	100	1.5	< 2	2.81	3.5	7	251	52
106629	205 294	20	30	5.6	70	0.4	4.18	120	2.0	< 2	3.60	2.0	6	152	36
106630	205 294	10	18	2.8	60	0.2	5.65	280	2.5	< 2	3.62	1.5	7	138	28
106631	205 294	< 5	4	0.6	30	< 0.2	6.83	1810	3.0	< 2	1.03	< 0.5	3	107	5
106632	205 294	15	14	3.4	40	0.4	3.98	150	2.5	< 2	2.23	< 0.5	8	180	46
106633	205 294	< 5	6	0.8	30	< 0.2	6.47	350	3.0	< 2	1.06	< 0.5	2	113	8
106634	205 294	< 5	4	0.4	< 10	< 0.2	6.75	3170	3.0	< 2	0.93	< 0.5	3	106	4
106635	205 294	< 5	2	0.2	< 10	< 0.2	5.53	2380	2.5	< 2	1.02	< 0.5	2	111	3
106636	205 294	< 5	1	0.6	< 10	< 0.2	6.32	2870	3.0	< 2	0.88	< 0.5	3	67	2
106637	205 294	< 5	1	0.4	< 10	< 0.2	6.39	3610	3.5	< 2	0.83	< 0.5	3	85	3
106638	205 294	< 5	4	0.8	10	< 0.2	6.48	1520	3.0	< 2	1.22	< 0.5	3	123	4
106639	205 294	10	26	5.4	180	0.8	4.79	160	2.5	< 2	1.92	5.0	5	212	44
106640	205 294	10	38	7.8	230	1.4	4.20	130	2.5	< 2	1.79	4.5	4	178	54
106641	205 294	20	54	12.0	770	4.4	4.69	130	2.5	< 2	1.49	14.5	6	191	193
106642	205 294	15	54	9.8	1650	6.0	5.21	180	2.0	< 2	1.69	22.0	6	233	396
106643	205 294	20	84	12.5	2190	13.6	3.42	360	0.5	2	8.86	29.0	5	199	1155
106644	205 294	20	54	15.5	1710	6.0	6.64	210	2.5	2	0.91	16.5	6	134	424
106645	205 294	< 5	2	1.8	50	< 0.2	8.98	310	1.5	< 2	1.11	< 0.5	5	61	8
106646	205 294	< 5	1	1.4	30	< 0.2	8.59	370	1.5	< 2	0.86	< 0.5	4	102	6
106647	205 294	< 5	4	0.8	10	< 0.2	5.18	260	0.5	< 2	0.49	< 0.5	3	164	3
106648	205 294	< 5	4	3.0	60	0.4	7.73	190	1.5	< 2	0.40	< 0.5	4	110	11
106649	205 294	< 5	2	1.8	10	< 0.2	7.10	210	2.0	< 2	0.33	< 0.5	4	110	5
106650	205 294	< 5	2	1.6	20	< 0.2	6.87	270	1.5	< 2	0.74	< 0.5	4	167	5
106651	205 294	< 5	1	1.2	10	< 0.2	6.01	200	0.5	< 2	0.33	< 0.5	3	119	3
106652	205 294	< 5	1	0.8	10	< 0.2	5.08	440	0.5	< 2	0.34	< 0.5	2	116	3
106653	205 294	< 5	6	1.0	10	< 0.2	6.56	330	1.0	< 2	1.26	< 0.5	4	96	4
106654	205 294	< 5	4	0.8	30	< 0.2	5.65	250	1.0	< 2	1.22	< 0.5	3	149	7
106655	205 294	< 5	2	1.0	30	< 0.2	7.20	190	2.5	< 2	0.47	< 0.5	5	106	7
106656	205 294	< 5	8	1.0	30	< 0.2	5.08	150	2.0	< 2	0.41	< 0.5	3	134	5
106657	205 294	< 5	18	4.6	150	0.8	3.68	70	3.0	< 2	0.98	3.0	5	263	41
106658	205 294	< 5	46	3.4	200	0.8	2.96	60	2.5	< 2	0.86	1.5	5	364	64
106659	205 294	< 5	40	6.2	660	1.2	1.45	30	< 0.5	< 2	0.21	14.0	3	228	43
106660	205 294	< 5	50	7.8	800	1.4	1.69	50	1.5	< 2	0.19	2.0	7	311	34

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.
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Page 1 of 1-B
 Total : 2
 Certificate Date: 30-JUL-96
 Invoice No. : 19624792
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624792

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106621	205 294	1.47	1.63	0.49	315	1	0.09	57	100	10	30	0.16	99	< 10	82
106622	205 294	1.26	0.98	0.36	230	1	0.03	32	90	8	41	0.08	71	< 10	20
106623	205 294	2.16	1.20	0.37	305	1	0.03	40	210	26	76	0.10	104	< 10	192
106624	205 294	1.63	1.48	0.47	430	1	0.06	44	240	4	42	0.18	103	< 10	62
106625	205 294	1.95	1.54	0.49	275	1	0.08	45	130	< 2	36	0.16	93	< 10	110
106626	205 294	1.30	1.00	0.34	345	1	0.05	36	100	2	33	0.11	79	< 10	76
106627	205 294	1.31	1.32	0.36	215	1	0.07	35	360	8	70	0.13	146	< 10	28
106628	205 294	2.63	1.63	0.61	485	10	0.03	50	1380	40	139	0.16	217	< 10	750
106629	205 294	2.18	2.05	0.61	475	12	0.05	40	1650	54	183	0.19	182	< 10	506
106630	205 294	2.05	2.31	0.72	505	4	0.11	19	620	38	188	0.22	85	< 10	246
106631	205 294	1.17	3.02	0.81	165	3	0.23	10	190	6	51	0.12	10	< 10	28
106632	205 294	2.71	1.95	0.82	545	2	0.06	37	850	20	77	0.18	142	< 10	76
106633	205 294	1.46	3.00	0.84	160	1	0.11	3	190	10	41	0.11	11	< 10	24
106634	205 294	0.78	2.19	0.71	85	< 1	1.42	2	200	6	63	0.11	6	< 10	14
106635	205 294	0.59	1.59	0.52	85	< 1	1.55	1	210	< 2	69	0.09	6	< 10	12
106636	205 294	0.54	1.88	0.54	60	< 1	1.98	1	160	4	68	0.10	4	< 10	8
106637	205 294	0.69	2.34	0.68	70	< 1	1.12	< 1	170	< 2	64	0.11	6	< 10	14
106638	205 294	0.91	2.69	0.73	115	< 1	0.38	4	230	6	60	0.11	10	< 10	38
106639	205 294	1.98	2.18	0.55	240	9	0.07	31	870	74	122	0.14	180	< 10	526
106640	205 294	2.09	2.00	0.52	265	11	0.07	34	890	90	100	0.13	150	< 10	620
106641	205 294	2.85	2.27	0.56	270	12	0.07	56	1180	360	75	0.16	235	< 10	1750
106642	205 294	2.74	2.58	0.60	320	12	0.11	37	970	510	97	0.17	157	< 10	2640
106643	205 294	5.46	1.67	0.43	880	14	0.03	28	630	730	837	0.10	142	< 10	3360
106644	205 294	3.07	3.09	0.69	205	15	0.15	41	720	436	67	0.17	275	< 10	1915
106645	205 294	1.24	3.67	0.55	75	1	1.76	1	440	28	105	0.23	22	< 10	24
106646	205 294	1.17	3.90	0.37	75	1	1.31	3	410	24	81	0.20	19	< 10	12
106647	205 294	1.04	3.10	0.06	55	2	0.28	2	300	10	52	0.11	13	< 10	6
106648	205 294	3.68	3.45	0.12	80	3	1.04	4	410	60	63	0.19	22	< 10	12
106649	205 294	1.87	2.64	0.08	75	3	1.03	3	400	30	50	0.18	22	< 10	14
106650	205 294	1.67	2.27	0.13	100	3	1.07	4	340	30	70	0.19	28	< 10	16
106651	205 294	1.48	1.84	0.06	45	1	1.58	4	330	28	54	0.15	15	< 10	12
106652	205 294	0.92	1.81	0.11	50	1	1.19	5	310	18	53	0.12	16	< 10	12
106653	205 294	0.98	2.98	0.17	225	1	0.65	4	400	16	76	0.15	21	< 10	16
106654	205 294	1.02	2.07	0.09	125	1	1.01	3	410	18	199	0.14	23	< 10	16
106655	205 294	1.75	2.54	0.13	90	3	0.62	6	550	16	65	0.22	52	< 10	22
106656	205 294	1.31	1.29	0.15	75	1	1.47	9	350	64	68	0.12	43	< 10	18
106657	205 294	2.67	1.61	0.32	155	10	0.10	67	2130	52	111	0.10	285	< 10	302
106658	205 294	3.97	1.11	0.24	125	8	0.06	82	2370	32	70	0.08	239	< 10	226
106659	205 294	16.85	0.42	0.09	145	13	0.01	46	890	90	23	0.03	148	< 10	1520
106660	205 294	6.67	0.52	0.11	460	25	0.03	86	900	110	32	0.04	514	< 10	620

CERTIFICATION: Hart Buchler



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Page No. : 2-A
 Total P. : 2
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CERTIFICATE OF ANALYSIS A9624792

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106661	205 294	< 5	30	4.4	110	0.6	2.88	50	2.0	< 2	0.42	2.5	15	291	58
106662	205 294	< 5	16	2.4	40	0.6	2.98	130	0.5	< 2	1.19	1.0	10	280	35
106663	205 294	< 5	46	3.4	80	0.6	3.99	60	1.5	< 2	2.05	0.5	12	324	53
106664	205 294	< 5	24	4.0	50	0.4	1.60	270	0.5	< 2	0.58	1.0	4	246	12
106665	205 294	< 5	12	3.6	50	0.6	1.87	210	0.5	< 2	0.46	< 0.5	3	235	16
106666	205 294	< 5	10	4.8	50	0.6	1.83	400	0.5	< 2	0.59	< 0.5	1	193	25
106667	205 294	< 5	50	6.8	80	0.6	5.22	70	2.0	< 2	1.00	2.5	10	176	40
106668	205 294	< 5	38	3.0	10	0.4	1.88	140	0.5	< 2	4.08	0.5	6	193	24
106669	205 294	< 5	44	6.2	50	0.4	5.89	120	2.0	< 2	1.93	0.5	10	208	34
106670	205 294	< 5	14	9.4	30	< 0.2	3.14	190	0.5	< 2	3.39	1.5	10	175	28
106671	205 294	< 5	28	7.6	60	0.6	6.38	100	2.5	< 2	1.49	2.5	11	165	36
106672	205 294	< 5	42	9.0	10	1.0	2.39	160	0.5	< 2	0.62	0.5	3	239	55
106673	205 294	< 5	54	1.2	< 10	0.6	5.07	80	1.5	< 2	1.30	1.5	8	188	29
106674	205 294	< 5	4	2.6	20	< 0.2	6.81	260	2.0	< 2	1.24	1.5	6	112	18
106675	205 294	< 5	6	2.6	10	0.2	7.23	220	2.0	< 2	1.21	0.5	6	106	12
106676	205 294	< 5	6	3.2	20	< 0.2	6.32	180	2.0	< 2	1.39	1.0	6	106	16
106677	205 294	10	28	6.6	70	0.8	5.24	80	2.0	< 2	1.28	4.0	8	193	40
106678	205 294	15	44	9.6	120	1.0	5.13	60	2.0	< 2	0.98	7.5	12	194	66
106679	205 294	< 5	48	3.0	40	< 0.2	6.45	180	2.0	< 2	1.28	1.0	7	156	20
106680	205 294	< 5	136	1.8	< 10	< 0.2	5.40	270	1.5	< 2	1.11	2.0	5	113	17
106681	205 294	< 5	80	2.4	10	0.8	4.30	120	1.0	< 2	1.23	0.5	9	168	32
106682	205 294	< 5	6	3.8	40	< 0.2	3.94	150	1.0	< 2	0.59	2.0	6	140	30
106683	205 294	< 5	2	3.0	50	< 0.2	6.64	230	2.0	< 2	0.85	1.5	7	162	24
106684	205 294	5	16	8.2	170	0.8	5.01	70	1.5	< 2	0.49	3.5	9	157	44
106685	205 294	5	12	6.4	140	0.6	5.08	70	2.0	< 2	0.23	2.5	10	161	52
106686	205 294	5	12	6.0	220	0.6	4.79	70	1.5	< 2	0.38	2.0	12	139	46

CERTIFICATION:

Heath Buchanan



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 2-B
 Total F : 2
 Certificate Date: 30-JUL-96
 Invoice No. : 19624792
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624792

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
	106661	205	294	3.74	1.06	0.27	605	4	0.06	82	640	14	47	0.09	141	10
106662	205	294	1.89	0.94	0.53	535	6	0.05	46	1210	< 2	102	0.13	195	10	240
106663	205	294	2.57	1.35	0.85	495	14	0.05	64	3140	52	245	0.24	377	20	90
106664	205	294	1.30	0.22	0.14	700	4	0.03	21	1290	8	148	0.07	147	10	290
106665	205	294	0.83	0.56	0.09	85	7	0.05	16	2110	4	314	0.08	300	< 10	66
106666	205	294	0.50	0.63	0.11	30	5	0.03	13	2800	< 2	246	0.09	350	< 10	40
106667	205	294	2.57	2.31	0.63	175	10	0.12	59	1300	< 2	71	0.21	326	10	216
106668	205	294	1.89	0.80	1.62	1020	< 1	0.02	16	400	< 2	257	0.06	54	10	28
106669	205	294	2.25	2.66	1.08	370	5	0.10	38	1030	< 2	167	0.21	197	10	74
106670	205	294	1.63	1.38	1.09	650	< 1	0.04	31	310	< 2	322	0.17	74	10	62
106671	205	294	2.27	2.73	0.99	310	6	0.11	35	1310	4	142	0.22	223	10	236
106672	205	294	1.13	0.74	0.15	175	5	0.06	23	2280	20	102	0.12	459	10	202
106673	205	294	1.71	1.80	0.59	175	6	0.13	37	2260	12	98	0.16	230	10	56
106674	205	294	1.59	2.50	0.86	160	3	0.34	12	790	10	62	0.17	83	10	92
106675	205	294	1.62	2.62	0.95	145	1	0.47	13	860	14	66	0.18	73	< 10	84
106676	205	294	1.55	2.28	0.90	205	6	0.35	18	720	12	74	0.16	93	10	100
106677	205	294	1.97	2.20	0.72	235	11	0.10	55	3370	8	108	0.18	282	10	314
106678	205	294	2.56	2.06	0.63	205	22	0.12	106	2570	8	108	0.22	536	10	574
106679	205	294	1.47	2.52	0.94	230	4	0.37	20	820	6	76	0.18	114	10	98
106680	205	294	1.37	2.04	0.95	240	2	0.35	17	640	4	90	0.17	96	< 10	88
106681	205	294	1.40	1.50	0.67	295	4	0.14	30	600	4	60	0.17	132	10	70
106682	205	294	1.57	1.42	0.55	120	2	0.18	24	670	4	48	0.15	165	< 10	144
106683	205	294	1.76	2.51	0.99	205	6	0.20	27	910	6	86	0.19	155	10	128
106684	205	294	2.63	1.90	0.50	80	9	0.43	67	1270	4	55	0.20	307	10	308
106685	205	294	2.30	2.23	0.57	120	6	0.12	54	980	< 2	36	0.22	252	10	252
106686	205	294	2.55	1.97	0.50	115	7	0.12	87	1120	< 2	49	0.21	212	10	368

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER I 9 6 2 4 7 9 3

BILLING INFORMATION

Date: 31-JUL-96
 Project: WOLVERINE
 P.O. No.:
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9624793

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	139.40
Total Cost \$				139.40
Client Discount (25%) \$				<u>-34.85</u>
Net Cost \$				104.55
(Reg# R100938885) GST \$				<u>7.32</u>
TOTAL PAYABLE (CDN) \$				111.87



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9624793

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9624793**

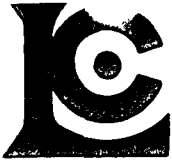
(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-JUL-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
226	4	0-3 Kg crush and split
3202	4	Rock - save entire reject
285	4	ICP - HF digestion charge
287	4	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	4	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	4	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	4	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	4	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	4	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	4	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	4	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	4	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	4	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	4	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	4	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	4	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	4	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	4	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	4	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	4	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	4	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	4	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	4	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	4	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	4	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	4	Pb ppm: 24 element, rock & core	AAS	2	10000
582	4	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	4	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	4	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	4	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	4	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

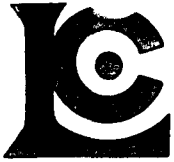
Page 1 of 1-A
 Total F : 1
 Certificate Date: 30-JUL-96
 Invoice No. : 19624793
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624793

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
107058A	205 226	55	40	1.0	90	0.2	9.14	210	9.5	< 2	1.07	4.5	10	43	28
107059A	205 226	30	70	14.0	4370	13.2	2.03	50	1.5	< 2	5.98	101.5	32	170	59
107060A	205 226	20	66	0.8	40	< 0.2	2.12	2520	< 0.5	< 2	2.05	0.5	4	265	12
107061A	205 226	< 5	6	2.2	110	1.0	5.49	110	4.0	< 2	1.84	4.0	9	178	60

CERTIFICATION: Hart Buchler



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 30-JUL-96
 Invoice No. : I9624793
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624793

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
107058A	205 226	2.08	4.33	1.30	610	1	0.25	9	130	20	75	0.20	16	< 10	1030
107059A	205 226	5.80	0.85	0.60	1405	5	0.04	99	380	>10000	251	0.11	153	< 10	>10000
107060A	205 226	1.06	0.30	0.21	415	1	0.25	9	280	116	68	0.04	14	< 10	210
107061A	205 226	2.23	2.50	0.63	385	12	0.25	46	580	84	115	0.17	242	10	554

CERTIFICATION:

Handwritten signature: Howard Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 4 9 6 6

BILLING INFORMATION

Date: 2-AUG-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9624966

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
13	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	453.05
Total Cost \$				453.05
Client Discount (25%) \$				<u>-113.26</u>
Net Cost \$				339.79
(Reg# R100938885) GST \$				<u>23.79</u>
TOTAL PAYABLE (CDN) \$				363.58



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pa 1-A
 Tot QC 1
 Date: 01-AUG-96
 Invoice #: I9624966
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE A9624966

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CKR-W CHEMEX MEAN	std1	1	85 81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	std1	1	----	----	----	----	----	6.71 7.07	760 766	2.0 0.9	6 5	2.10 2.12	1.5 0.9	20 19	138 141	209 221
GEO-90 CHEMEX MEAN	std1	1	----	66 61	7.8 7.7	180 189	3.0 3.0	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P# 1-B
 Tot QC 1
 Date: 01-AUG-96
 Invoice #: I9624966
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

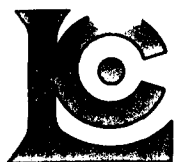
QC DATA OF CERTIFICATE

A9624966

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CKR-W CHEMEX MEAN	std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
G90-TOT CHEMEX MEAN	std1	1	3.85 3.98	1.70 1.76	0.98 1.00	1005 1015	7 7	1.71 1.74	74 76	1110 1120	----- -----	313 320	0.34 0.34	101 103	< 10 < 10	240 246
GEO-90 CHEMEX MEAN	std1	1	-----	-----	-----	-----	-----	-----	-----	-----	196 195	-----	-----	-----	-----	-----

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9624966

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE	A9624966
--------------------	-----------------

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 1-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	13	Geochem ring to approx 150 mesh
226	13	0-3 Kg crush and split
3202	13	Rock - save entire reject
285	13	ICP - HF digestion charge
287	13	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	13	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	13	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	13	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	13	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	13	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	13	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	13	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	13	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	13	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	13	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	13	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	13	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	13	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	13	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	13	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	13	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	13	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	13	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	13	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	13	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	13	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	13	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	13	Pb ppm: 24 element, rock & core	AAS	2	10000
582	13	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	13	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	13	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	13	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	13	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 1 of 1-A
Total F : 1
Certificate Date: 01-AUG-96
Invoice No. : 19624966
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9624966

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105122	205 226	30	2	2.2	10	< 0.2	1.92	450	< 0.5	< 2	0.86	< 0.5	6	126	33
105123	205 226	10	1	2.8	40	0.2	2.81	110	1.5	< 2	2.74	< 0.5	12	119	80
105124	205 226	< 5	4	0.8	10	< 0.2	0.98	2120	1.0	2	0.25	< 0.5	3	57	41
105125	205 226	< 5	2	0.8	< 10	< 0.2	2.00	400	6.0	< 2	1.56	< 0.5	4	157	22
105126	205 226	< 5	1	0.6	40	< 0.2	1.67	260	8.0	< 2	5.51	< 0.5	2	128	15
105127	205 226	< 5	1	0.6	790	0.2	1.81	940	2.5	< 2	1.90	< 0.5	5	203	56
105128	205 226	60	2	1.6	30	< 0.2	2.14	140	3.0	< 2	0.89	< 0.5	2	166	23
105129	205 226	< 5	2	1.0	40	0.2	1.90	490	0.5	2	0.49	< 0.5	5	148	59
105052	205 226	20	1	1.2	600	0.4	1.55	130	0.5	< 2	0.44	< 0.5	3	142	34
105053	205 226	5	2	2.0	610	0.2	1.45	110	1.0	< 2	0.45	< 0.5	3	209	33
105054	205 226	< 5	4	0.4	670	< 0.2	1.71	470	2.0	< 2	0.51	< 0.5	4	105	50
105055	205 226	130	1	0.6	< 10	< 0.2	1.81	530	7.5	< 2	1.67	< 0.5	2	158	35
105056	205 226	< 5	2	1.2	< 10	< 0.2	3.22	3030	0.5	6	0.35	< 0.5	8	133	67

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page # : 1-B
 Total # : 1
 Certificate Date: 01-AUG-96
 Invoice No. : 19624966
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9624966

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105122	205 226	8.45	0.35	0.51	5860	18	0.05	16	400	< 2	133	0.08	77	< 10	68
105123	205 226	7.85	0.40	0.79	>10000	14	0.06	49	710	4	328	0.11	113	< 10	126
105124	205 226	0.44	0.26	0.09	215	1	0.02	11	150	24	196	0.03	66	< 10	10
105125	205 226	11.75	0.34	0.28	545	30	0.04	9	440	< 2	356	0.11	103	< 10	48
105126	205 226	10.60	0.32	0.26	1175	16	0.03	4	450	< 2	745	0.10	98	< 10	66
105127	205 226	1.07	0.42	0.21	460	3	0.06	37	150	44	519	0.06	95	< 10	688
105128	205 226	8.97	0.25	0.48	430	3	0.03	10	920	< 2	281	0.10	81	< 10	36
105129	205 226	1.45	0.67	0.39	210	3	0.03	56	1310	6	198	0.10	73	< 10	132
105052	205 226	23.4	0.06	0.38	5370	17	0.01	18	430	30	122	0.07	93	< 10	542
105053	205 226	17.70	0.18	0.31	1590	14	0.01	28	600	36	56	0.06	119	< 10	544
105054	205 226	1.10	0.49	0.21	195	4	0.07	34	200	52	277	0.07	96	< 10	800
105055	205 226	12.50	0.29	0.43	1590	11	0.01	5	1530	< 2	198	0.08	130	< 10	18
105056	205 226	2.22	0.77	0.71	190	< 1	0.14	46	190	< 2	66	0.21	81	< 10	72

CERTIFICATION: *[Signature]*



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 5 0 6 5

BILLING INFORMATION

Date: 1-AUG-96
Project: 6410
P.O. No.:
Account: GP W

Comments: ATTN:TERRY TUCKER

Billing: For analysis performed on
Certificate A9625065

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
201	201 - Dry, sieve to -80 mesh	1.25		
	202 - save reject	0.85		
	ICP-24	10.50		
	983 - Au ppb FA+AA	9.75	22.35	4492.35
17	201 - Dry, sieve to -80 mesh	1.25		
	202 - save reject	0.85		
	ICP-24	10.50	12.60	214.20
1	201 - Dry, sieve to -80 mesh	1.25		
	202 - save reject	0.85		
	983 - Au ppb FA+AA	9.75	11.85	11.85

Total Cost \$	4718.40
Client Discount (25%) \$	-1179.60
Net Cost \$	3538.80
(Reg# R100938885) GST \$	247.72

TOTAL PAYABLE (CDN) \$ 3786.52

COPY



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot QC 1
 Date: 01-AUG-96
 Invoice #: 19625304
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9625304

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	4.02	1.64	1.02	960	7	1.62	72	1110	----	297	0.34	101	10	244
G90-TOT	Std2	1	3.94	1.88	0.99	980	7	1.79	68	1090	----	306	0.34	100	10	242
G90-TOT	Std1	2	3.94	2.01	1.00	1000	6	1.86	72	1090	----	314	0.34	104	10	242
G90-TOT	Std2	2	3.94	2.05	1.00	1000	7	1.89	75	1070	----	317	0.34	103	< 10	242
G90-TOT	Std1	3	3.90	2.01	0.99	995	7	1.87	72	1090	----	314	0.33	102	< 10	236
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std1	3	----	----	----	----	----	----	----	----	180	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NG-94	Std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	4	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	4	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.06	0.27	0.01	< 5	< 1	0.01	< 1	180	----	165	0.01	3	< 10	< 2
SIO2-T3	Blnk	2	0.07	0.08	0.03	5	< 1	0.02	< 1	200	----	187	0.02	5	< 10	2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
106688	Dup1-01		2.12	1.31	0.60	1305	1	0.05	41	380	6	32	0.17	72	< 10	94
	Orig1-01		2.09	1.51	0.60	1330	< 1	0.08	44	400	10	34	0.17	72	< 10	94
106728	Dup2-01		1.62	1.09	0.73	625	4	0.27	27	250	4	70	0.12	64	< 10	56
	Orig2-01		1.63	1.14	0.71	630	4	0.26	26	240	4	70	0.13	65	< 10	56

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9625304

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE	A9625304
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(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 1-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	95	Geochem ring to approx 150 mesh
226	95	0-3 Kg crush and split
3202	95	Rock - save entire reject
285	95	ICP - HF digestion charge
287	95	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	95	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	95	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	95	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	95	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	95	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	95	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	95	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	95	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	95	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	95	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	95	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	95	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	95	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	95	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	95	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	95	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	95	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	95	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	95	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	95	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	95	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	95	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	95	Pb ppm: 24 element, rock & core	AAS	2	10000
582	95	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	95	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	95	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	95	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	95	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-A
 Total Pages: 3
 Certificate Date: 01-AUG-96
 Invoice No.: I9625304
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9625304

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106688	205 226	< 5	4	0.2	10	< 0.2	3.82	3670	0.5	< 2	0.60	< 0.5	13	205	76
106689	205 226	< 5	4	< 0.2	10	< 0.2	1.21	830	< 0.5	< 2	2.38	0.5	6	139	20
106690	205 226	< 5	2	0.2	30	< 0.2	4.31	4580	1.0	< 2	0.19	0.5	12	212	74
106691	205 226	< 5	1	0.2	30	< 0.2	3.47	3840	0.5	< 2	0.41	0.5	11	221	70
106692	205 226	< 5	32	< 0.2	10	< 0.2	8.16	5260	0.5	< 2	1.85	< 0.5	42	246	240
106693	205 226	< 5	2	0.2	30	< 0.2	2.38	4000	0.5	< 2	0.20	< 0.5	5	116	75
106694	205 226	< 5	6	0.4	60	< 0.2	3.01	3980	0.5	< 2	0.58	< 0.5	11	135	55
106695	205 226	545	2	0.6	80	< 0.2	1.93	70	< 0.5	< 2	0.29	< 0.5	4	127	98
106696	205 226	< 5	4	0.4	70	< 0.2	3.50	1900	0.5	< 2	0.26	< 0.5	13	202	70
106697	205 226	10	4	0.2	80	< 0.2	2.88	720	0.5	< 2	0.90	0.5	8	178	76
106698	205 226	< 5	2	0.4	60	< 0.2	3.48	180	0.5	< 2	1.22	< 0.5	13	185	94
106699	205 226	< 5	4	0.2	40	< 0.2	3.49	380	0.5	< 2	1.16	< 0.5	14	167	84
106700	205 226	15	4	1.4	40	< 0.2	2.95	280	0.5	< 2	1.24	< 0.5	9	233	68
106701	205 226	< 5	1	1.0	< 10	< 0.2	1.01	550	< 0.5	< 2	1.51	0.5	3	192	1
106702	205 226	< 5	2	1.6	20	< 0.2	2.95	3350	0.5	< 2	0.90	< 0.5	10	246	64
106703	205 226	< 5	1	1.0	< 10	< 0.2	2.96	3870	0.5	< 2	0.28	< 0.5	8	184	71
106704	205 226	< 5	2	1.2	10	1.0	2.93	3670	0.5	< 2	0.39	< 0.5	8	206	68
106705	205 226	10	2	0.8	10	< 0.2	3.17	370	0.5	< 2	0.44	< 0.5	8	180	79
106706	205 226	< 5	2	1.0	< 10	< 0.2	2.88	700	0.5	< 2	0.48	< 0.5	8	192	77
106707	205 226	< 5	1	1.0	10	< 0.2	4.45	1330	0.5	< 2	0.37	< 0.5	11	178	73
106708	205 226	< 5	4	0.4	10	< 0.2	3.87	2100	0.5	< 2	0.71	< 0.5	9	224	86
106709	205 226	< 5	2	0.4	40	< 0.2	1.59	1370	< 0.5	< 2	0.22	< 0.5	3	101	35
106710	205 226	< 5	2	0.2	10	< 0.2	3.12	880	0.5	< 2	0.53	< 0.5	7	202	77
106711	205 226	< 5	1	0.4	10	< 0.2	2.97	1230	0.5	< 2	0.52	< 0.5	8	182	74
106712	205 226	15	1	0.4	10	< 0.2	4.57	1180	0.5	< 2	0.94	< 0.5	9	192	67
106713	205 226	< 5	4	0.4	10	< 0.2	2.36	2330	< 0.5	< 2	4.10	< 0.5	7	192	29
106714	205 226	< 5	1	0.2	< 10	< 0.2	3.25	1540	0.5	< 2	0.87	< 0.5	8	218	69
106715	205 226	< 5	2	0.4	10	< 0.2	3.46	1280	0.5	< 2	0.94	< 0.5	8	181	62
106716	205 226	< 5	1	0.2	< 10	< 0.2	3.79	820	0.5	< 2	1.17	< 0.5	9	201	64
106717	205 226	< 5	2	1.0	< 10	< 0.2	3.40	490	0.5	< 2	1.06	< 0.5	10	192	83
106718	205 226	< 5	2	0.2	< 10	< 0.2	3.48	850	0.5	< 2	2.22	< 0.5	9	207	63
106719	205 226	< 5	2	1.0	< 10	< 0.2	3.81	900	0.5	< 2	0.81	< 0.5	9	200	64
106720	205 226	< 5	1	0.2	10	< 0.2	3.66	1480	0.5	< 2	1.32	< 0.5	9	233	75
106721	205 226	< 5	1	0.2	< 10	< 0.2	3.76	1300	0.5	< 2	1.31	< 0.5	10	160	63
106722	205 226	< 5	1	< 0.2	10	< 0.2	2.17	2020	< 0.5	< 2	0.14	< 0.5	5	145	51
106723	205 226	< 5	1	< 0.2	20	< 0.2	3.33	1030	0.5	< 2	0.52	< 0.5	8	229	83
106724	205 226	< 5	1	< 0.2	< 10	< 0.2	3.53	3140	0.5	< 2	0.45	< 0.5	13	191	87
106725	205 226	< 5	2	0.2	10	< 0.2	3.24	1550	0.5	< 2	0.49	< 0.5	9	194	71
106726	205 226	< 5	1	0.2	10	< 0.2	3.33	780	0.5	< 2	0.65	< 0.5	9	161	75
106727	205 226	< 5	2	< 0.2	< 10	< 0.2	3.76	5330	0.5	< 2	0.52	< 0.5	12	133	67

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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Page: 1-B
 Total Pages: 3
 Certificate Date: 01-AUG-96
 Invoice No.: 19625304
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 Account: GP W

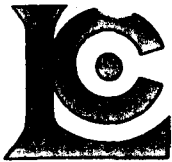
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9625304

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106688	205 226	2.09	1.51	0.60	1330	< 1	0.08	44	400	10	34	0.17	72	< 10	94
106689	205 226	1.42	0.34	0.19	1655	< 1	0.01	21	580	18	36	0.07	24	< 10	56
106690	205 226	2.51	1.79	0.51	1105	1	0.08	56	500	6	20	0.20	90	< 10	124
106691	205 226	2.19	1.35	0.80	1100	2	0.24	39	350	8	38	0.17	86	< 10	76
106692	205 226	8.05	1.50	2.20	4280	< 1	2.21	85	1170	< 2	204	0.74	290	20	196
106693	205 226	0.93	1.08	0.38	625	1	0.07	32	110	6	26	0.11	63	< 10	72
106694	205 226	3.04	1.08	0.65	6700	< 1	0.05	45	360	6	62	0.15	81	< 10	82
106695	205 226	9.37	0.12	0.77	6310	3	0.01	24	360	< 2	69	0.09	84	< 10	102
106696	205 226	2.61	1.44	0.55	1410	3	0.16	46	540	24	32	0.17	123	< 10	148
106697	205 226	2.38	1.21	0.64	2650	8	0.22	32	380	22	86	0.15	90	< 10	170
106698	205 226	3.34	1.46	0.67	2960	< 1	0.24	43	510	32	125	0.15	157	< 10	168
106699	205 226	3.50	1.22	0.65	2440	1	0.31	33	790	102	126	0.15	198	< 10	158
106700	205 226	3.23	1.03	0.70	1755	< 1	0.05	31	570	100	115	0.13	150	< 10	186
106701	205 226	0.95	0.15	0.09	1155	1	0.01	17	1250	4	45	0.08	25	< 10	66
106702	205 226	2.05	1.08	0.50	895	1	0.06	37	610	4	70	0.16	68	< 10	84
106703	205 226	1.76	1.14	0.43	1110	1	0.07	32	290	6	32	0.14	68	< 10	68
106704	205 226	1.86	1.16	0.68	1165	1	0.05	31	350	4	51	0.14	71	< 10	72
106705	205 226	2.38	1.21	0.76	1245	3	0.11	38	310	< 2	69	0.14	77	< 10	72
106706	205 226	1.72	1.20	0.73	1235	< 1	0.09	26	190	4	75	0.12	70	< 10	54
106707	205 226	2.43	1.51	1.02	775	< 1	0.30	36	340	< 2	67	0.20	72	< 10	80
106708	205 226	2.15	1.36	0.94	1575	4	0.18	35	450	12	107	0.17	78	< 10	74
106709	205 226	0.89	0.67	0.35	465	1	0.04	18	140	< 2	35	0.08	40	< 10	42
106710	205 226	1.79	1.30	0.68	1350	2	0.12	34	240	4	77	0.15	78	< 10	64
106711	205 226	1.72	1.21	0.67	1145	2	0.08	33	270	2	76	0.14	70	< 10	64
106712	205 226	2.09	1.48	0.90	1060	1	0.31	30	290	4	117	0.17	81	< 10	74
106713	205 226	1.37	0.90	1.12	1440	1	0.27	18	580	14	436	0.12	43	< 10	48
106714	205 226	1.83	1.35	1.00	905	1	0.07	32	380	4	95	0.14	71	< 10	74
106715	205 226	1.77	1.29	0.90	740	1	0.09	28	410	4	101	0.17	70	< 10	68
106716	205 226	2.06	1.42	1.08	1310	3	0.07	34	510	4	117	0.19	77	< 10	78
106717	205 226	2.14	1.25	0.92	1075	< 1	0.07	35	390	< 2	86	0.16	74	< 10	74
106718	205 226	1.91	1.42	0.98	1325	3	0.06	34	500	4	219	0.17	74	< 10	76
106719	205 226	1.91	1.32	0.62	925	1	0.08	35	470	4	83	0.18	79	< 10	76
106720	205 226	2.30	1.25	0.91	1265	2	0.05	32	460	4	140	0.17	72	< 10	82
106721	205 226	2.62	1.23	1.05	1070	1	0.32	34	410	4	158	0.19	68	< 10	74
106722	205 226	1.42	0.83	0.54	360	1	0.22	19	200	< 2	27	0.11	51	< 10	42
106723	205 226	1.95	1.36	0.89	990	2	0.30	34	330	6	92	0.16	77	< 10	68
106724	205 226	2.11	0.96	0.81	1885	1	1.01	31	350	12	100	0.17	62	< 10	60
106725	205 226	1.96	1.16	0.84	1165	3	0.46	31	300	6	95	0.16	67	< 10	64
106726	205 226	2.03	1.24	0.89	960	< 1	0.26	32	330	4	113	0.16	72	< 10	64
106727	205 226	2.05	1.59	0.91	1475	< 1	0.44	36	250	4	190	0.17	61	< 10	66

CERTIFICATION:

Hart Buehler



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 2-A
 Total Pages: 3
 Certificate Date: 01-AUG-96
 Invoice No.: 19625304
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9625304

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106728	205 226	< 5	2	< 0.2	< 10	< 0.2	2.66	1590	0.5	< 2	0.26	< 0.5	6	116	63
106729	205 226	< 5	6	0.4	30	< 0.2	3.82	4150	1.0	< 2	0.33	< 0.5	12	122	49
106730	205 226	< 5	2	0.2	< 10	< 0.2	3.07	2990	0.5	< 2	0.21	< 0.5	8	161	71
106731	205 226	5	4	0.6	20	< 0.2	3.32	1010	0.5	< 2	0.76	< 0.5	10	111	85
106732	205 226	< 5	2	< 0.2	20	< 0.2	3.09	4440	0.5	< 2	0.32	< 0.5	9	165	70
106733	205 226	10	4	0.4	10	< 0.2	3.17	450	0.5	< 2	0.39	< 0.5	9	111	78
106734	205 226	< 5	4	0.6	< 10	< 0.2	3.36	800	0.5	< 2	0.41	< 0.5	9	108	82
106735	205 226	< 5	2	< 0.2	< 10	< 0.2	3.44	2390	0.5	< 2	0.19	< 0.5	11	90	73
106736	205 226	< 5	12	0.4	< 10	< 0.2	4.31	3580	0.5	2	0.35	< 0.5	14	92	105
106737	205 226	< 5	8	0.8	10	< 0.2	3.45	240	0.5	< 2	0.64	< 0.5	6	103	84
106738	205 226	< 5	1	0.8	< 10	< 0.2	3.85	470	0.5	< 2	0.59	< 0.5	8	77	81
106739	205 226	< 5	2	0.6	< 10	< 0.2	3.82	400	0.5	< 2	0.35	< 0.5	10	111	79
106740	205 226	< 5	1	1.0	10	< 0.2	3.67	240	1.0	< 2	0.50	< 0.5	7	180	79
106741	205 226	< 5	2	1.8	20	< 0.2	3.42	290	0.5	< 2	0.47	< 0.5	7	138	78
106742	205 226	< 5	4	4.2	70	< 0.2	3.73	350	1.0	< 2	0.38	< 0.5	8	203	85
106743	205 226	< 5	1	9.0	110	< 0.2	3.54	110	0.5	< 2	1.04	< 0.5	7	138	72
106744	205 226	< 5	10	11.5	210	0.4	3.21	160	0.5	< 2	0.94	< 0.5	6	191	69
106745	205 226	< 5	16	13.5	230	< 0.2	2.90	130	0.5	< 2	0.42	< 0.5	5	130	63
106746	205 226	< 5	2	3.8	70	< 0.2	4.34	410	1.0	2	0.30	< 0.5	10	219	93
106747	205 226	< 5	2	1.0	30	< 0.2	3.14	450	0.5	< 2	0.34	< 0.5	6	119	74
106748	205 226	< 5	2	1.2	40	< 0.2	3.08	420	0.5	< 2	0.45	< 0.5	7	182	74
106749	205 226	10	4	2.0	30	< 0.2	3.21	180	0.5	< 2	0.35	< 0.5	8	127	74
106750	205 226	15	2	1.4	30	< 0.2	3.38	240	0.5	< 2	0.50	< 0.5	7	171	80
106751	205 226	5	1	0.8	10	< 0.2	2.94	360	0.5	< 2	0.33	< 0.5	8	105	73
106752	205 226	10	14	1.2	10	< 0.2	3.47	310	0.5	< 2	0.29	0.5	9	129	87
106753	205 226	< 5	6	0.4	30	< 0.2	3.09	900	0.5	< 2	0.33	< 0.5	11	93	68
106754	205 226	< 5	2	0.4	50	< 0.2	2.51	2020	0.5	< 2	0.23	< 0.5	9	126	82
106755	205 226	< 5	2	0.4	< 10	< 0.2	3.36	4300	0.5	< 2	0.16	< 0.5	9	80	86
106756	205 226	< 5	1	0.4	30	< 0.2	2.22	3680	0.5	< 2	0.14	< 0.5	8	97	47
106757	205 226	< 5	1	0.4	< 10	< 0.2	3.37	3860	0.5	< 2	0.27	< 0.5	10	80	79
106758	205 226	5	2	0.4	30	< 0.2	3.83	1310	0.5	< 2	0.34	< 0.5	11	155	91
106759	205 226	< 5	1	0.2	< 10	< 0.2	3.76	4240	1.0	< 2	0.36	< 0.5	11	108	79
106760	205 226	< 5	2	0.6	20	< 0.2	3.36	1820	1.0	< 2	0.34	1.0	11	189	81
106761	205 226	< 5	1	0.6	< 10	< 0.2	4.02	4630	1.5	< 2	0.45	0.5	13	138	96
106762	205 226	< 5	18	0.8	< 10	< 0.2	3.93	180	1.0	< 2	1.06	5.0	13	167	89
106763	205 226	< 5	44	1.0	10	< 0.2	3.84	110	0.5	< 2	1.07	4.5	10	138	89
106764	205 226	< 5	42	1.2	50	< 0.2	2.76	110	0.5	< 2	1.95	7.5	8	216	26
106765	205 226	< 5	64	2.4	20	< 0.2	3.67	90	< 0.5	< 2	1.85	6.0	8	133	19
106766	205 226	< 5	40	0.8	10	< 0.2	2.84	240	0.5	< 2	1.10	3.5	5	136	67
106767	205 226	< 5	40	0.6	< 10	< 0.2	2.43	170	< 0.5	< 2	0.78	1.5	5	158	64

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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 Total Pages 3
 Certificate Date: 01-AUG-96
 Invoice No. : 19625304
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9625304

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106728	205 226	1.63	1.14	0.71	630	4	0.26	26	240	4	70	0.13	65	< 10	56
106729	205 226	2.27	1.50	0.80	1310	< 1	0.58	35	290	8	91	0.19	72	< 10	70
106730	205 226	1.75	1.47	0.69	780	4	0.30	30	230	< 2	59	0.15	69	< 10	58
106731	205 226	1.89	1.41	0.94	1280	2	0.33	37	370	6	190	0.15	77	< 10	74
106732	205 226	1.85	1.31	0.78	1010	4	0.23	27	260	6	84	0.13	65	< 10	60
106733	205 226	2.02	1.37	0.88	885	1	0.19	33	250	4	107	0.14	84	< 10	64
106734	205 226	2.18	1.31	0.90	1205	1	0.52	32	310	4	115	0.15	80	< 10	66
106735	205 226	1.99	1.34	0.79	870	1	0.46	33	240	< 2	58	0.17	62	< 10	58
106736	205 226	2.72	1.17	1.19	2490	< 1	1.18	37	480	10	107	0.19	90	< 10	72
106737	205 226	2.05	1.37	1.08	1625	3	0.36	35	190	4	157	0.13	102	< 10	66
106738	205 226	2.02	1.53	1.10	1265	2	0.28	33	200	4	112	0.15	98	< 10	68
106739	205 226	2.07	1.50	1.05	885	< 1	0.13	37	230	4	65	0.15	91	< 10	74
106740	205 226	2.10	1.56	1.01	1205	< 1	0.07	34	260	4	111	0.16	98	< 10	64
106741	205 226	1.90	1.42	0.97	1320	1	0.07	28	210	< 2	102	0.13	92	< 10	58
106742	205 226	2.19	1.42	0.95	835	< 1	0.08	32	250	4	74	0.15	91	< 10	72
106743	205 226	2.46	1.55	0.84	1240	1	0.06	29	270	4	103	0.14	93	< 10	66
106744	205 226	2.11	1.33	0.74	1260	< 1	0.07	30	190	< 2	71	0.13	80	< 10	56
106745	205 226	1.88	1.19	0.69	1035	1	0.05	27	180	6	90	0.11	81	< 10	56
106746	205 226	2.35	1.73	1.09	800	< 1	0.07	39	290	4	75	0.18	110	< 10	76
106747	205 226	1.87	1.28	0.89	1135	< 1	0.07	31	190	4	87	0.13	81	< 10	64
106748	205 226	1.86	1.19	0.86	1410	1	0.07	30	200	2	119	0.13	81	< 10	60
106749	205 226	2.16	1.27	0.90	1200	3	0.06	34	180	4	91	0.14	93	< 10	72
106750	205 226	2.07	1.29	1.02	1655	< 1	0.19	35	180	< 2	129	0.13	89	< 10	64
106751	205 226	1.86	1.24	0.86	950	1	0.06	36	200	4	76	0.12	84	< 10	64
106752	205 226	2.03	1.34	0.95	1360	< 1	0.06	32	240	4	62	0.15	83	< 10	70
106753	205 226	1.90	1.16	0.83	1960	< 1	0.07	29	320	4	71	0.14	60	< 10	76
106754	205 226	1.60	1.09	0.67	1760	3	0.04	26	220	8	110	0.12	58	< 10	52
106755	205 226	1.90	1.33	0.88	1425	< 1	0.19	33	270	< 2	72	0.15	70	< 10	70
106756	205 226	1.35	1.00	0.69	1005	< 1	0.03	23	190	< 2	77	0.10	47	< 10	52
106757	205 226	1.96	1.47	0.90	1730	< 1	0.05	35	290	12	87	0.15	67	< 10	82
106758	205 226	2.32	1.22	1.06	1750	< 1	0.52	37	350	2	71	0.17	75	< 10	76
106759	205 226	2.24	1.28	0.91	1395	1	0.13	37	300	4	69	0.18	82	< 10	74
106760	205 226	1.86	1.04	0.65	1015	1	0.06	37	390	104	67	0.15	73	< 10	276
106761	205 226	2.08	1.35	0.73	1385	< 1	0.07	37	320	64	60	0.19	76	< 10	174
106762	205 226	2.14	0.89	0.62	2450	2	0.06	46	340	530	151	0.14	81	< 10	970
106763	205 226	2.32	0.89	0.62	2230	< 1	0.08	41	360	460	205	0.15	83	< 10	840
106764	205 226	2.04	0.34	0.84	2880	3	0.02	27	1400	680	402	0.08	56	< 10	1205
106765	205 226	2.37	0.09	0.91	1800	< 1	0.05	45	220	430	279	0.14	79	< 10	782
106766	205 226	1.71	0.29	0.61	905	< 1	0.03	26	170	120	130	0.13	71	< 10	490
106767	205 226	1.47	0.15	0.39	655	2	0.04	31	120	42	90	0.11	60	< 10	238

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
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 Total Pages: 3
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 Invoice No.: 19625304
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 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9625304

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106768	205 226	< 5	14	0.4	< 10	< 0.2	2.05	340	< 0.5	< 2	0.42	< 0.5	5	233	49
106769	205 226	< 5	32	0.8	< 10	< 0.2	3.39	90	0.5	12	2.76	1.0	9	217	28
106770	205 226	< 5	62	1.8	30	< 0.2	1.80	60	< 0.5	< 2	1.19	1.0	7	223	17
106771	205 226	< 5	32	1.0	20	< 0.2	5.72	240	3.5	< 2	1.39	0.5	5	109	10
106772	205 226	< 5	48	1.4	10	< 0.2	6.72	240	3.0	8	1.43	1.0	5	122	9
106773	205 226	< 5	88	1.8	20	< 0.2	4.54	70	1.5	2	1.38	2.5	7	146	28
106774	205 226	< 5	18	0.8	40	< 0.2	2.09	160	0.5	< 2	0.36	< 0.5	4	251	59
106775	205 226	< 5	10	1.0	10	< 0.2	2.84	320	1.0	12	0.55	< 0.5	6	306	50
106776	205 226	< 5	20	2.0	30	< 0.2	3.26	110	0.5	< 2	0.64	0.5	7	192	37
106777	205 226	< 5	30	0.6	20	< 0.2	1.90	90	< 0.5	< 2	0.73	< 0.5	6	181	52
106778	205 226	< 5	14	0.6	< 10	< 0.2	1.72	140	< 0.5	2	0.44	< 0.5	5	322	47
106779	205 226	< 5	22	0.8	< 10	< 0.2	1.54	270	< 0.5	< 2	0.28	< 0.5	5	265	45
106780	205 226	< 5	14	0.6	40	< 0.2	1.64	430	< 0.5	< 2	0.50	< 0.5	3	249	37
106781	205 226	< 5	14	0.8	20	< 0.2	2.71	150	0.5	< 2	0.33	< 0.5	8	205	33
106782	205 226	< 5	6	1.6	50	3.0	1.97	110	1.0	< 2	0.40	0.5	5	256	54

CERTIFICATION: _____



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Page: 3-B
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CERTIFICATE OF ANALYSIS A9625304

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106768	205 226	1.12	0.11	0.20	305	12	0.04	36	100	20	50	0.06	64	< 10	72
106769	205 226	3.19	0.28	0.91	2560	1	0.02	24	1600	12	270	0.10	71	< 10	106
106770	205 226	2.05	0.08	0.42	880	< 1	0.01	41	470	64	85	0.05	39	< 10	204
106771	205 226	1.77	2.05	0.86	645	4	0.10	19	220	16	83	0.15	78	< 10	80
106772	205 226	2.59	1.88	0.94	625	3	0.13	16	180	12	101	0.15	94	< 10	174
106773	205 226	2.69	0.85	0.73	735	3	0.08	29	260	72	94	0.11	82	< 10	362
106774	205 226	1.12	0.64	0.23	145	4	0.04	35	70	6	75	0.07	90	< 10	42
106775	205 226	1.48	0.62	0.47	315	1	0.05	27	160	4	216	0.08	76	< 10	124
106776	205 226	2.31	0.29	0.36	370	1	0.06	44	230	6	93	0.11	102	< 10	174
106777	205 226	1.32	0.14	0.32	290	6	0.02	59	110	12	75	0.07	56	< 10	56
106778	205 226	1.31	0.33	0.25	335	1	0.02	37	70	< 2	98	0.06	60	< 10	108
106779	205 226	1.06	0.26	0.18	255	1	0.01	31	80	< 2	101	0.05	48	< 10	144
106780	205 226	0.89	0.25	0.27	240	1	0.01	22	80	20	94	0.06	56	< 10	62
106781	205 226	1.81	0.33	0.24	440	1	0.04	56	100	20	38	0.09	79	< 10	130
106782	205 226	1.57	0.72	0.22	180	2	0.04	45	120	22	16	0.08	90	10	224

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 5 7 6 3

BILLING INFORMATION

Date: 15-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9625763

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
15	258 - RUSH Assay ring approx 150 mesh	3.75		
	272 - RUSH 4-7 Kg crush and split	5.25		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	124.67	1870.05

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	1912.05
	Client Discount (25% of \$1905.05)\$	<u>-476.26</u>

	Net Cost \$	1435.79
(Reg# R100938885)	GST \$	<u>100.51</u>

TOTAL PAYABLE (CDN) \$ 1536.30

* Not Subject to Discount

COPY



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-A
 Tot QC 1
 Date: 15-AUG-96
 Invoice #: I9625763
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

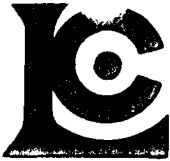
*PLEASE NOTE

QC DATA OF CERTIFICATE A9625763

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	ZnBa % (XRFSpec Gr ppm S.G.)	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	0.007 0.008	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	0.68 0.67	3.50 3.58	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	840 865	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.62 0.62	175 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.79 0.83	0.46 0.45	0.97 0.95	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	2.55 2.62	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	4.0 4.3	5.40 5.72	300 285	< 10 < 10	< 20 < 20	3.05 3.50	< 10 < 10	360 364	290 266

CERTIFICATION: Hart Buehler

*INTERFERENCE: Cu ON Bi. Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot QC 1
 Date: 15-AUG-96
 Invoice #: I9625763
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

QC DATA OF CERTIFICATE A9625763

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	std1 1	9490 9440	18.55 19.35	0.7 0.8	2.60 2.70	960 961	< 10 < 10	1.60 1.38	10900 11050	0.006 0.007	230 221	0.30 0.29	110 115	460 191

CERTIFICATION: H. S. [Signature]

*INTERFERENCE: Cu ON Bi. Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9625763

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9625763

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

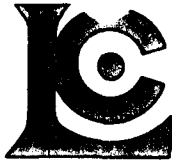
Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	15	RUSH Assay ring approx 150 mesh
272	15	RUSH 4-7 Kg crush and split
3202	15	Rock - save entire reject
290	15	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	15	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	15	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	15	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	15	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	15	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	15	Ba ppm	XRF	10	50000
444	15	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	15	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	15	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	15	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	15	Ag ppm: high grade 24 element	AAS	0.5	200
4031	15	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	15	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	15	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	15	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	15	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	15	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	15	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	15	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	15	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	15	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	15	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	15	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	15	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	15	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	15	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	15	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	15	Pb %: high grade 24 element	AAS	0.001	10.00
4047	15	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	15	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	15	V ppm: A22 ICP package	ICP-AES	10	50000
4050	15	Zn ppm: A22 ICP package	ICP-AES	20	100000



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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page : 1-A
 Total : 1
 Certificate Date: 15-AUG-96
 Invoice No. : 19625763
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625763

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH FA																	
105207	258	272	4.11	970	1.04	1.39	26.6	890	3.87	0.21	0.26	0.006	>200	0.30	300	< 10	< 20	1.90	2750	10	150
105208	258	272	1.06	240	0.16	2.88	19.00	1475	4.40	0.46	0.04	0.002	>200	0.45	100	< 10	< 20	0.90	1650	< 10	120
105209	258	272	0.34	79	0.43	0.86	8.38	9250	3.73	0.03	< 0.01	< 0.001	86.0	3.15	< 100	< 10	20	3.20	680	10	120
105210	258	272	0.07	27	0.22	0.25	4.46	11740	3.13	0.01	0.02	< 0.001	28.0	3.95	100	< 10	< 20	9.25	400	< 10	80
105211	258	272	2.50	209	3.77	0.42	37.0	2760	3.83	0.01	< 0.01	< 0.001	>200	1.10	< 100	< 10	100	2.60	2420	160	80
105212	258	272	1.89	439	7.23	0.25	17.70	410	3.96	0.01	< 0.01	< 0.001	>200	0.50	300	< 10	120	0.85	1940	140	70
105213	258	272	1.75	494	1.08	2.97	20.3	175	3.95	0.08	0.12	0.006	>200	0.15	100	< 10	20	0.30	2010	90	130
105214	258	272	1.27	391	1.90	0.95	18.90	180	3.84	0.04	0.08	0.003	>200	0.15	100	< 10	20	1.10	1900	110	110
105215	258	272	1.99	490	1.63	1.62	13.50	145	4.15	0.05	0.16	< 0.001	>200	0.20	100	< 10	60	0.25	1360	80	130
105216	258	272	1.58	312	1.47	1.13	14.40	85	3.86	0.03	0.04	< 0.001	>200	0.15	< 100	< 10	40	0.05	1380	60	140
105217	258	272	2.50	477	1.60	1.64	20.0	120	4.31	0.09	0.18	< 0.001	>200	0.20	100	< 10	20	0.05	1600	70	130
105218	258	272	1.03	264	0.65	2.09	20.5	2490	3.91	0.16	0.12	0.005	>200	0.80	< 100	< 10	< 20	0.20	2240	30	150
105219	258	272	1.23	168	0.82	0.98	17.60	230	4.29	0.17	0.08	0.005	158.0	0.30	100	< 10	20	0.80	1710	50	130
105220	258	272	1.23	216	2.32	0.55	11.70	240	4.44	0.06	0.05	< 0.001	>200	0.45	300	< 10	80	0.40	1020	120	110
105221	258	272	4.35	878	10.80	0.65	14.80	645	3.93	0.07	0.10	< 0.001	>200	0.90	100	< 10	Intf*	0.15	1280	130	70

CERTIFICATION: _____

*INTERFERENCE: Cu ON Bi. Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-B
 Total F : 1
 Certificate Date: 15-AUG-96
 Invoice No. : 19625763
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

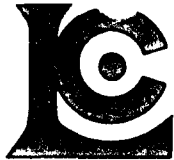
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625763

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105207	258	272	10380	18.10	< 0.1	0.05	560	60	< 0.05	70	1.430	70	< 0.05	140	>100000
105208	258	272	1560	28.4	0.1	0.10	220	30	< 0.05	40	3.06	40	< 0.05	40	>100000
105209	258	272	4320	23.0	1.3	0.65	700	< 10	0.05	10	0.832	90	< 0.05	80	71900
105210	258	272	2130	11.80	1.7	1.20	1300	< 10	0.15	10	0.232	200	0.05	160	41400
105211	258	272	39200	21.1	0.4	0.85	1260	< 10	0.05	30	0.404	90	< 0.05	280	>100000
105212	258	272	78100	26.7	0.1	0.55	920	< 10	< 0.05	40	0.237	20	< 0.05	100	>100000
105213	258	272	11250	21.9	< 0.1	< 0.05	270	40	< 0.05	100	3.14	< 10	< 0.05	50	>100000
105214	258	272	20400	21.8	< 0.1	< 0.05	370	30	< 0.05	70	0.933	< 10	< 0.05	50	>100000
105215	258	272	17300	29.5	< 0.1	< 0.05	210	30	< 0.05	100	1.730	< 10	< 0.05	50	>100000
105216	258	272	15130	24.8	< 0.1	< 0.05	230	50	< 0.05	100	1.150	< 10	< 0.05	30	>100000
105217	258	272	16790	>30.0	< 0.1	< 0.05	260	40	< 0.05	90	1.700	< 10	< 0.05	50	>100000
105218	258	272	6810	21.9	0.3	0.10	260	50	0.05	50	2.21	< 10	< 0.05	70	>100000
105219	258	272	8790	>30.0	< 0.1	0.20	340	40	< 0.05	30	0.967	20	< 0.05	30	>100000
105220	258	272	24400	>30.0	< 0.1	0.15	220	< 10	< 0.05	10	0.521	10	< 0.05	20	91000
105221	258	272	>100000	28.3	0.3	0.25	250	< 10	0.05	10	0.624	< 10	< 0.05	100	>100000

CERTIFICATION: _____

*INTERFERENCE: Cu ON Bi. Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 5 8 5 1

BILLING INFORMATION

Date: 9-AUG-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER, VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9625851

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
126	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	4567.50
				Total Cost \$ 4567.50
				Client Discount (25%) \$ -1141.88
				Net Cost \$ 3425.62
				(Reg# R100938885) GST \$ 239.79
				TOTAL PAYABLE (CDN) \$ 3665.41



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

QC P: 1-A
Tot QC 2
Date: 08-AUG-96
Invoice #: I9625851
P.O. #: 6406
GP W

*PLEASE NOTE

QC DATA OF CERTIFICATE A9625851

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-93	std2	2	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	100	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	1	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	4	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	std1	2	925	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93	std2	3	935	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.94	770	1.5	6	2.10	1.5	17	135	221
G90-TOT	std2	1	----	----	----	----	----	7.14	790	1.5	8	2.18	2.0	18	146	222
G90-TOT	std1	2	----	----	----	----	----	7.02	780	2.0	6	2.21	2.0	19	144	222
G90-TOT	std2	2	----	----	----	----	----	6.91	780	2.0	8	2.14	2.0	18	148	220
G90-TOT	std1	3	----	----	----	----	----	6.94	790	2.0	8	2.24	2.0	19	136	221
G90-TOT	std2	3	----	----	----	----	----	7.05	790	2.0	10	2.22	2.0	19	139	225
G90-TOT	std1	4	----	----	----	----	----	6.85	790	2.0	10	2.23	1.5	19	139	223
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	60	7.2	200	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	60	7.4	190	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	62	7.8	190	3.2	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	64	7.8	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	62	7.6	170	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	3	----	64	7.8	170	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	4	----	64	7.6	190	2.8	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94	std2	1	340	----	----	----	----	----	----	----	----	----	----	----	----	----
NG-94	std1	3	325	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.27	30	< 0.5	< 0.5	8	0.03	< 0.5	< 1	6	< 1
SIO2-T3	Blnk	2	----	----	----	----	0.28	30	< 0.5	< 0.5	< 2	0.03	< 0.5	< 1	4	2

CERTIFICATION: Hart Buchler

*INTERFERENCE: Cu ON Bi AND P.



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

QC Pa
Tot QC
Date: 08-AUG-96
Invoice #: I9625851
P.O. #: 6406
GP W

*PLEASE NOTE

QC DATA OF CERTIFICATE A9625851

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
CKR-93	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
CKR-W	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
CKR-W	std1	4	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
CSB-93	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
CSB-93	std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
G90-TOT	std1	1	3.86	1.73	1.00	995	8	1.81	73	1040	----	318	0.34	102	20	234
G90-TOT	std2	1	4.02	1.81	1.04	1040	8	1.85	80	1110	----	329	0.35	109	20	244
G90-TOT	std1	2	3.97	1.86	1.02	1065	9	1.83	78	1180	----	327	0.35	111	10	246
G90-TOT	std2	2	3.91	1.86	1.01	1055	8	1.81	78	1140	----	325	0.35	111	20	238
G90-TOT	std1	3	4.00	1.72	1.01	1050	7	1.84	75	1110	----	326	0.35	108	10	246
G90-TOT	std2	3	4.00	1.76	1.01	1050	7	1.82	78	1130	----	325	0.35	111	< 10	250
G90-TOT	std1	4	3.98	1.75	1.00	1050	8	1.82	76	1130	----	325	0.35	108	10	246
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	std1	1	----	----	----	----	----	----	----	----	184	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	180	----	----	----	----	----
GEO-90	std1	3	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std2	3	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std1	4	----	----	----	----	----	----	----	----	190	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NG-94	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.06	0.08	0.01	5	< 1	0.01	1	200	----	150	0.01	5	< 10	< 2
SIO2-T3	Blnk	2	0.06	0.05	0.01	5	< 1	0.01	1	190	----	157	0.01	4	< 10	2

CERTIFICATION:

Hester Bechler

*INTERFERENCE: Cu ON Bi AND P.



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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QC P: 2-A
 Tot QC 2
 Date: 08-AUG-96
 Invoice #: 19625851
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

QC DATA OF CERTIFICATE A9625851

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CHEMEX MEAN	--- ---	-----	-----	-----	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
105071	Dup1-01 Orig1-01	40 25	2 2	3.6 3.8	300 290	10.4 10.0	6.93 6.37	330 590	< 0.5 < 0.5	Intf* Intf*	2.17 2.10	27.5 27.0	22 23	17 21	>10000 >10000
106798	Dup2-01 Orig2-01	< 5 < 5	106 104	0.8 0.8	10 30	< 0.2 < 0.2	3.28 3.43	190 190	2.0 2.0	< 2 4	1.83 1.87	< 0.5 < 0.5	9 11	237 246	36 34
106838	Dup3-01 Orig3-01	5 5	4 4	4.6 4.4	160 180	0.6 0.8	5.35 5.51	170 140	2.0 2.0	< 2 2	0.41 0.39	3.0 3.0	9 9	157 178	68 68
106878	Dup4-01 Orig4-01	----- NotRed	----- NotRed	----- NotRed	----- NotRed	----- NotRed	< 0.01 NotRed	< 10 NotRed	< 0.5 NotRed	< 2 NotRed	< 0.01 NotRed	< 0.5 NotRed	< 1 NotRed	< 1 NotRed	< 1 NotRed

CERTIFICATION: 11.9.96

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QC DATA OF CERTIFICATE

A9625851

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CHEMEX MEAN	--- ---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
105071	Dup1-01 Orig1-01	13.00 12.00	0.34 0.33	5.67 4.93	1375 1310	3 3	0.26 0.24	3 2	Intf* Intf*	580 540	60 59	0.12 0.11	26 26	70 80	3390 3130
106798	Dup2-01 Orig2-01	1.51 1.59	1.37 1.37	0.49 0.51	495 500	1 1	0.04 0.04	34 39	300 310	< 2 4	73 74	0.13 0.14	111 115	< 10 < 10	46 48
106838	Dup3-01 Orig3-01	2.42 2.44	2.11 2.28	0.68 0.71	225 220	5 6	0.16 0.13	56 60	840 900	2 4	82 84	0.25 0.25	297 312	< 10 < 10	290 330
106878	Dup4-01 Orig4-01	< 0.01 NotRcd	< 0.01 NotRcd	< 0.01 NotRcd	< 5 NotRcd	< 1 NotRcd	< 0.01 NotRcd	< 1 NotRcd	< 10 NotRcd	----- NotRcd	< 1 NotRcd	< 0.01 NotRcd	< 1 NotRcd	< 10 NotRcd	< 2 NotRcd

CERTIFICATION: *Hart Bickler*

*INTERFERENCE: Cu ON Bi AND P.



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CERTIFICATE

A9625851

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

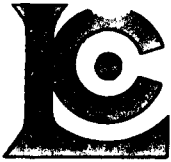
Samples submitted to our lab in Vancouver, BC.
This report was printed on 8-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	126	Geochem ring to approx 150 mesh
294	126	4-7 Kg crush and split
3202	126	Rock - save entire reject
285	126	ICP - HF digestion charge
287	126	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	126	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	126	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	126	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	126	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	126	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	126	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	126	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	126	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	126	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	126	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	126	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	126	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	126	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	126	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	126	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	126	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	126	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	126	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	126	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	126	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	126	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	126	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	126	Pb ppm: 24 element, rock & core	AAS	2	10000
582	126	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	126	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	126	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	126	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	126	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page: 1 of 1-A
 Total Pages: 4
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625851

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105071	205 294	25	2	3.8	290	10.0	6.37	590	< 0.5	Intf*	2.10	27.0	23	21	>10000
105072	205 294	10	52	19.0	170	7.4	5.90	1440	< 0.5	124	0.73	8.0	13	27	338
105073	205 294	< 5	80	6.8	10	0.6	5.62	1990	< 0.5	26	0.41	1.0	10	29	52
105074	205 294	5	80	3.6	10	1.0	5.69	1420	< 0.5	28	0.65	1.0	9	34	33
105075	205 294	10	42	7.6	10	3.6	5.87	990	< 0.5	92	0.69	0.5	12	32	55
105076	205 294	< 5	10	3.0	30	4.4	5.71	1550	< 0.5	38	0.69	2.0	9	44	60
105077	205 294	10	22	5.8	10	0.8	5.19	620	< 0.5	84	0.72	1.5	10	33	111
105078	205 294	< 5	24	1.2	< 10	< 0.2	7.75	1890	0.5	< 2	0.65	0.5	7	23	16
105079	205 294	< 5	10	1.8	< 10	< 0.2	9.20	2410	1.0	10	1.25	0.5	6	19	23
105080	205 294	< 5	8	1.0	10	< 0.2	8.74	2800	2.0	4	0.85	< 0.5	5	30	26
105081	205 294	< 5	44	9.4	30	< 0.2	7.25	320	2.5	< 2	1.49	< 0.5	2	44	42
105082	205 294	< 5	16	3.6	80	< 0.2	7.75	140	2.5	< 2	1.51	< 0.5	3	60	5
105083	205 294	< 5	20	4.6	200	< 0.2	7.24	180	2.5	< 2	2.18	< 0.5	3	50	2
105084	205 294	10	16	4.2	350	< 0.2	7.82	190	2.5	2	2.42	< 0.5	4	53	2
105085	205 294	5	14	2.6	60	< 0.2	7.41	150	2.5	< 2	1.46	< 0.5	3	56	3
105086	205 294	< 5	6	1.6	150	< 0.2	8.09	270	2.5	< 2	0.87	< 0.5	4	49	< 1
105087	205 294	< 5	14	1.4	10	< 0.2	7.07	1510	2.5	6	0.82	< 0.5	4	70	< 1
105088	205 294	< 5	6	1.8	< 10	0.4	5.29	2110	< 0.5	20	1.00	0.5	9	40	45
105089	205 294	< 5	16	3.8	10	1.4	5.48	2240	< 0.5	48	1.08	0.5	8	37	26
105090	205 294	< 5	2	0.8	< 10	< 0.2	7.53	2190	2.0	2	1.30	< 0.5	2	38	< 1
105091	205 294	< 5	4	1.4	10	< 0.2	7.46	2020	3.0	< 2	1.17	< 0.5	3	51	1
105092	205 294	< 5	2	1.2	30	< 0.2	7.56	1860	3.0	2	0.59	< 0.5	3	32	< 1
105093	205 294	< 5	2	2.2	10	< 0.2	7.62	2220	3.0	4	1.14	< 0.5	3	49	< 1
105094	205 294	10	60	11.0	440	0.8	5.95	160	2.0	6	3.51	2.5	4	121	8
105095	205 294	10	40	8.4	370	0.2	6.68	150	2.5	2	1.22	0.5	4	78	7
106783	205 294	5	46	3.2	100	5.6	4.18	140	2.5	6	4.71	2.0	11	277	85
106784	205 294	35	30	5.6	100	0.6	5.23	400	4.5	4	3.21	5.5	10	185	26
106785	205 294	< 5	22	4.6	110	< 0.2	7.17	130	3.5	< 2	6.72	2.0	17	65	106
106786	205 294	< 5	102	7.8	50	3.2	7.83	200	4.0	< 2	7.48	2.5	25	118	154
106787	205 294	< 5	140	0.2	< 10	< 0.2	7.58	2270	< 0.5	2	5.68	1.5	39	337	289
106788	205 294	< 5	46	1.2	70	1.0	6.60	240	2.5	10	3.50	10.0	13	221	274
106789	205 294	< 5	68	0.2	10	< 0.2	3.35	2190	0.5	8	1.31	< 0.5	12	167	190
106790	205 294	< 5	100	0.4	< 10	< 0.2	3.68	2540	1.0	12	1.45	< 0.5	11	118	53
106791	205 294	< 5	62	1.6	40	< 0.2	3.16	530	0.5	6	0.78	< 0.5	8	119	62
106792	205 294	< 5	84	1.6	20	< 0.2	3.69	370	1.0	8	0.63	< 0.5	8	149	35
106793	205 294	< 5	64	0.4	10	< 0.2	2.41	150	0.5	8	5.75	< 0.5	7	73	38
106794	205 294	< 5	34	1.4	10	< 0.2	2.39	110	0.5	< 2	1.14	< 0.5	6	130	20
106795	205 294	< 5	72	0.8	20	< 0.2	2.88	210	1.5	2	1.98	< 0.5	8	98	23
106796	205 294	5	130	1.8	40	< 0.2	2.57	70	0.5	< 2	1.50	< 0.5	9	153	29
106797	205 294	< 5	70	0.4	10	< 0.2	2.83	240	1.5	< 2	1.44	< 0.5	7	147	26

CERTIFICATION:

Hart Bickler

*INTERFERENCE: Cu ON Bi AND P.



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 Total Pages: 4
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 Invoice No.: 19625851
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625851

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105071	205 294	12.00	0.33	4.93	1310	3	0.24	2	Intf*	540	59	0.11	26	80	3130
105072	205 294	8.12	0.50	4.23	965	4	0.15	3	300	2000	22	0.07	19	30	1960
105073	205 294	6.46	0.81	3.30	730	1	0.17	< 1	280	100	15	0.08	16	10	316
105074	205 294	6.00	0.93	3.66	675	3	0.19	1	280	26	22	0.07	16	10	178
105075	205 294	6.90	0.66	4.41	745	3	0.20	5	250	204	21	0.07	17	20	240
105076	205 294	5.96	1.03	3.31	765	3	0.14	3	250	200	25	0.07	16	10	392
105077	205 294	6.79	0.43	4.02	820	3	0.17	1	210	192	20	0.06	13	20	244
105078	205 294	5.52	1.40	5.69	655	3	0.32	3	350	10	21	0.11	21	10	176
105079	205 294	5.30	1.95	6.80	745	3	0.35	4	410	12	37	0.11	31	10	182
105080	205 294	4.33	2.52	4.64	460	3	0.28	3	390	6	31	0.13	24	10	120
105081	205 294	2.27	3.11	3.42	265	3	0.24	2	340	2	46	0.14	20	< 10	92
105082	205 294	2.13	3.20	2.44	180	3	0.25	4	370	14	42	0.14	20	< 10	74
105083	205 294	1.72	3.27	1.89	155	3	0.24	3	370	8	50	0.14	19	< 10	30
105084	205 294	1.92	3.56	2.16	150	2	0.24	5	410	12	58	0.15	21	< 10	22
105085	205 294	1.85	3.22	2.14	170	4	0.22	3	350	6	39	0.14	19	< 10	18
105086	205 294	1.77	3.48	1.97	165	3	0.22	3	390	12	41	0.16	21	< 10	40
105087	205 294	1.23	3.46	1.56	150	1	0.20	2	350	< 2	78	0.15	18	< 10	24
105088	205 294	5.23	1.19	2.77	860	1	0.13	3	270	52	32	0.07	16	10	196
105089	205 294	4.63	1.44	2.73	815	1	0.16	1	260	82	37	0.09	17	10	158
105090	205 294	1.44	3.68	1.81	185	4	0.22	3	360	< 2	105	0.18	18	< 10	28
105091	205 294	1.36	3.87	2.13	180	4	0.22	3	350	< 2	79	0.17	18	< 10	38
105092	205 294	1.42	3.45	2.46	100	3	0.18	2	350	< 2	42	0.17	19	< 10	40
105093	205 294	1.56	3.25	2.78	195	3	0.20	3	370	< 2	56	0.18	20	< 10	36
105094	205 294	2.89	2.94	0.84	245	5	0.14	17	1600	28	142	0.17	171	10	102
105095	205 294	2.23	3.22	0.76	130	5	0.17	10	1090	20	55	0.17	83	< 10	48
106783	205 294	3.37	1.70	0.52	1495	2	0.06	41	840	96	145	0.33	171	40	280
106784	205 294	3.45	2.89	1.79	1070	6	0.09	44	490	106	124	0.26	163	10	1120
106785	205 294	7.58	3.01	0.99	2440	3	0.16	33	2370	26	209	0.95	264	30	110
106786	205 294	4.67	3.82	1.21	1400	4	0.22	44	2920	1600	306	1.17	272	20	456
106787	205 294	5.36	1.65	4.49	1365	1	0.95	116	470	4	274	0.17	170	20	84
106788	205 294	3.12	2.52	1.66	770	21	0.12	61	630	112	154	0.24	271	10	2300
106789	205 294	1.51	1.18	0.79	780	1	0.06	35	300	4	68	0.13	82	< 10	72
106790	205 294	1.48	1.51	0.97	955	1	0.07	40	350	< 2	79	0.15	83	< 10	76
106791	205 294	1.30	1.37	0.65	420	< 1	0.06	35	290	< 2	80	0.14	72	< 10	110
106792	205 294	1.41	1.56	0.55	250	3	0.07	46	200	< 2	53	0.15	100	< 10	36
106793	205 294	1.45	0.42	1.17	1740	1	0.01	47	120	< 2	121	0.08	75	< 10	32
106794	205 294	1.51	0.28	0.36	325	< 1	0.03	42	90	< 2	68	0.10	100	< 10	34
106795	205 294	1.56	0.79	0.57	505	1	0.03	62	240	< 2	57	0.13	133	< 10	22
106796	205 294	2.94	0.93	0.46	385	1	0.03	62	160	12	33	0.10	109	< 10	28
106797	205 294	1.14	1.03	0.76	630	1	0.03	28	320	20	50	0.11	111	< 10	48

CERTIFICATION: Hans Buchler

*INTERFERENCE: Cu ON Bi AND P.



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

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 Total Pages: 4
 Certificate Date: 08-AUG-96
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625851

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106798	205 294	< 5	104	0.8	30	< 0.2	3.43	190	2.0	4	1.87	< 0.5	11	246	34
106799	205 294	< 5	66	0.8	30	0.4	3.96	340	2.5	6	1.31	< 0.5	14	177	78
106800	205 294	< 5	70	0.6	10	< 0.2	3.05	260	1.0	4	1.83	< 0.5	7	177	49
106801	205 294	10	52	2.8	40	0.2	3.24	180	2.5	6	2.29	< 0.5	8	231	38
106802	205 294	< 5	30	1.6	50	0.2	3.40	110	1.5	4	1.08	2.0	10	217	36
106803	205 294	< 5	30	1.4	40	0.4	2.42	140	0.5	10	1.89	3.0	9	300	41
106804	205 294	25	112	8.0	980	2.0	7.36	70	2.5	6	0.60	2.5	11	170	34
106805	205 294	< 5	22	2.4	90	0.4	4.01	280	1.5	8	1.25	< 0.5	11	195	63
106806	205 294	< 5	22	6.6	330	1.2	3.83	70	1.5	< 2	0.47	6.5	6	246	48
106807	205 294	< 5	18	9.2	950	0.6	2.21	110	0.5	< 2	0.26	21.0	4	237	57
106808	205 294	15	98	14.5	560	2.6	4.25	90	3.0	< 2	1.20	28.5	3	289	64
106809	205 294	< 5	26	8.2	800	1.2	3.45	90	1.5	2	0.82	14.5	7	240	97
106810	205 294	10	50	6.8	160	1.6	4.81	130	2.5	6	1.89	7.5	9	356	84
106811	205 294	10	24	7.2	200	1.2	5.22	110	3.0	2	1.14	5.5	7	200	53
106812	205 294	5	20	8.0	290	1.6	2.12	110	0.5	< 2	0.70	16.0	6	455	87
106813	205 294	5	18	8.4	460	2.0	2.46	100	1.0	2	1.36	18.5	7	287	102
106814	205 294	< 5	22	9.6	420	1.4	2.50	110	1.0	< 2	0.57	12.0	7	182	77
106815	205 294	5	60	10.0	350	1.6	2.09	100	0.5	< 2	0.76	9.5	6	327	66
106816	205 294	15	100	12.0	300	1.6	3.30	80	1.5	< 2	1.13	12.5	9	237	87
106817	205 294	20	80	7.0	190	1.2	3.13	80	1.5	< 2	0.71	6.5	7	366	55
106818	205 294	10	24	12.5	780	2.2	2.93	80	1.5	< 2	1.21	13.0	10	203	90
106819	205 294	5	6	5.4	240	1.0	4.80	100	2.0	< 2	0.34	4.0	7	228	49
106820	205 294	< 5	12	15.0	430	1.6	2.26	120	1.5	< 2	0.46	10.0	8	315	86
106821	205 294	5	6	7.8	80	1.8	1.90	120	0.5	< 2	0.53	4.0	< 1	256	70
106822	205 294	5	12	4.8	130	0.6	6.55	240	2.0	< 2	0.77	3.0	5	127	28
106823	205 294	< 5	6	2.6	70	0.4	7.15	290	2.0	< 2	1.03	0.5	4	90	12
106824	205 294	< 5	12	5.0	140	1.2	6.56	230	1.5	< 2	1.15	3.0	5	117	30
106825	205 294	< 5	6	2.0	60	0.6	3.97	110	1.5	< 2	0.52	1.5	6	212	43
106826	205 294	< 5	8	2.2	160	0.8	5.25	140	1.5	< 2	1.70	2.5	6	138	41
106827	205 294	< 5	2	1.6	70	0.6	5.46	280	2.0	< 2	1.99	2.5	6	134	35
106828	205 294	< 5	2	1.0	50	0.8	5.42	230	2.0	< 2	1.29	2.0	6	136	36
106829	205 294	< 5	2	1.8	90	0.6	5.58	200	2.0	< 2	2.00	2.5	6	173	45
106830	205 294	20	24	8.2	550	2.0	3.90	90	1.5	< 2	0.87	13.5	8	259	92
106831	205 294	15	18	9.6	280	1.6	4.69	80	1.5	< 2	0.36	4.5	7	207	63
106832	205 294	15	14	5.8	280	1.2	4.42	120	1.5	< 2	0.93	4.5	9	208	62
106833	205 294	5	2	1.6	320	0.8	4.49	210	1.5	< 2	1.40	3.5	10	212	51
106834	205 294	10	2	4.4	180	1.0	5.03	130	2.0	< 2	0.83	3.0	7	200	48
106835	205 294	< 5	4	2.6	120	0.6	6.39	190	2.5	< 2	0.60	2.0	4	188	24
106836	205 294	10	20	8.0	560	1.2	3.08	70	1.5	< 2	1.20	10.5	10	192	72
106837	205 294	15	20	10.0	380	1.6	3.88	70	1.5	< 2	0.67	4.5	7	211	74

CERTIFICATION:

Hant Bichler

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SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106798	205 294	1.59	1.37	0.51	500	1	0.04	39	310	4	74	0.14	115	< 10	48
106799	205 294	1.55	1.88	0.56	1400	1	0.06	43	360	< 2	69	0.17	155	< 10	32
106800	205 294	1.53	1.43	0.51	595	1	0.03	40	190	< 2	104	0.12	97	< 10	34
106801	205 294	2.00	1.62	0.51	700	5	0.03	37	500	12	103	0.14	152	< 10	104
106802	205 294	2.28	0.94	0.43	580	6	0.06	49	480	18	44	0.14	153	< 10	602
106803	205 294	1.79	0.53	0.74	925	6	0.01	35	520	32	57	0.08	115	< 10	524
106804	205 294	5.63	1.84	0.44	265	16	0.13	59	680	164	38	0.20	200	< 10	270
106805	205 294	2.37	1.74	0.84	945	2	0.06	47	400	8	128	0.18	148	< 10	84
106806	205 294	2.53	1.55	0.53	115	18	0.09	70	1520	4	81	0.16	462	< 10	540
106807	205 294	1.34	0.95	0.26	55	36	0.05	87	1070	< 2	48	0.10	771	< 10	1410
106808	205 294	3.54	1.33	0.39	90	69	0.25	84	3960	66	146	0.09	801	< 10	1795
106809	205 294	2.16	1.53	0.58	140	53	0.07	139	2280	4	145	0.15	993	< 10	1285
106810	205 294	2.82	2.27	0.91	305	15	0.08	88	2640	6	179	0.20	493	10	586
106811	205 294	2.43	2.23	0.61	190	20	0.12	62	1460	12	136	0.19	367	< 10	468
106812	205 294	1.36	0.83	0.28	115	23	0.03	130	2310	4	122	0.11	706	< 10	1010
106813	205 294	1.52	1.04	0.74	235	27	0.02	132	2300	< 2	171	0.12	755	< 10	1230
106814	205 294	1.40	0.98	0.22	100	22	0.05	116	2560	< 2	225	0.11	572	< 10	904
106815	205 294	1.35	0.78	0.16	90	28	0.03	102	3490	< 2	375	0.10	514	< 10	742
106816	205 294	1.80	1.40	0.58	195	23	0.06	113	2450	2	175	0.15	617	< 10	968
106817	205 294	1.94	1.19	0.28	105	18	0.07	81	2660	2	164	0.12	385	< 10	528
106818	205 294	1.93	1.20	0.23	80	34	0.06	173	5850	< 2	761	0.12	766	< 10	1485
106819	205 294	2.29	2.11	0.59	180	7	0.11	52	1410	2	61	0.17	250	< 10	282
106820	205 294	1.39	0.91	0.14	65	21	0.06	109	2140	< 2	359	0.10	567	< 10	942
106821	205 294	1.16	0.68	0.13	30	16	0.04	16	1940	< 2	148	0.09	310	< 10	40
106822	205 294	1.53	2.50	0.71	145	6	0.75	30	1200	10	75	0.18	180	< 10	218
106823	205 294	1.16	2.34	0.62	125	4	1.64	12	850	10	110	0.17	78	< 10	78
106824	205 294	1.58	1.92	0.50	165	7	1.46	34	1520	12	110	0.17	209	< 10	240
106825	205 294	1.99	1.64	0.63	275	3	0.11	33	490	4	58	0.16	130	< 10	110
106826	205 294	2.64	2.11	0.96	335	5	0.19	35	680	12	143	0.18	167	10	212
106827	205 294	2.11	2.16	0.97	335	4	0.25	31	710	8	118	0.19	167	< 10	190
106828	205 294	2.04	1.97	0.87	265	3	0.40	32	730	6	118	0.18	163	< 10	170
106829	205 294	2.61	2.13	0.96	305	5	0.30	34	770	20	131	0.20	190	< 10	200
106830	205 294	2.12	1.55	0.42	95	19	0.14	145	3410	4	206	0.16	623	< 10	1145
106831	205 294	2.48	1.84	0.48	65	7	0.13	58	950	4	70	0.23	365	< 10	306
106832	205 294	2.41	1.72	0.61	200	7	0.14	76	1790	4	156	0.18	282	< 10	436
106833	205 294	2.22	1.68	0.78	340	10	0.18	63	1690	14	191	0.18	235	< 10	528
106834	205 294	2.33	1.99	0.80	245	7	0.17	48	850	6	122	0.21	245	< 10	244
106835	205 294	2.08	2.34	0.90	255	4	0.24	23	870	4	93	0.15	155	< 10	170
106836	205 294	2.16	1.31	0.32	80	16	0.06	173	5740	< 2	470	0.12	551	< 10	1110
106837	205 294	2.31	1.60	0.38	90	13	0.14	83	2980	4	297	0.18	412	< 10	468

CERTIFICATION: *Hart Buchler*

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106838	205 294	5	4	4.4	180	0.8	5.51	140	2.0	2	0.39	3.0	9	178	68
106839	205 294	5	2	3.8	170	0.8	5.22	140	2.0	2	0.47	3.5	8	182	56
106840	205 294	< 5	2	2.6	110	0.4	5.54	250	2.0	2	1.32	2.0	7	125	37
106841	205 294	< 5	14	6.0	290	1.0	4.77	100	2.0	4	0.69	6.0	9	201	67
106842	205 294	5	12	6.0	320	1.0	4.64	100	2.0	< 2	0.65	3.5	6	237	43
106843	205 294	10	18	9.2	330	1.4	3.89	100	1.5	6	0.46	7.0	8	309	76
106844	205 294	5	18	7.6	380	1.2	2.98	130	1.5	4	0.46	15.5	7	271	70
106845	205 294	10	64	7.8	350	1.2	4.19	130	2.0	2	0.64	7.0	10	234	56
106846	205 294	10	18	8.4	280	1.4	4.71	120	2.0	2	0.53	6.0	8	263	63
106847	205 294	5	12	6.4	310	1.0	5.20	150	2.0	< 2	0.95	9.0	7	180	50
106848	205 294	15	12	6.6	270	1.2	4.70	100	2.0	< 2	1.67	3.5	11	204	104
106849	205 294	10	18	7.4	440	1.4	3.12	130	1.5	< 2	1.03	6.0	7	252	64
106850	205 294	15	12	7.2	290	1.2	3.83	130	1.5	2	1.55	5.5	8	284	71
106851	205 294	10	28	8.8	320	1.0	3.55	120	1.5	4	1.85	7.5	10	405	63
106852	205 294	5	122	8.4	310	1.0	4.80	110	2.0	6	3.88	7.0	9	211	96
106853	205 294	< 5	20	4.4	50	0.2	4.69	270	1.5	4	2.86	0.5	9	151	45
106854	205 294	< 5	28	8.4	470	1.4	3.19	110	1.0	< 2	0.76	14.5	7	248	66
106855	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106856	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106857	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106858	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106859	205 294	5	62	12.5	2330	3.0	2.48	100	1.0	< 2	0.34	47.0	6	384	55
106860	205 294	10	42	12.0	880	2.4	2.35	100	0.5	< 2	1.05	19.5	6	398	70
106861	205 294	30	34	9.6	370	2.0	5.27	180	2.0	4	4.31	4.0	9	310	243
106862	205 294	35	36	8.4	330	1.8	5.60	180	2.0	< 2	3.32	2.5	11	321	257
106863	205 294	20	20	5.0	220	1.0	5.09	100	2.0	< 2	2.78	2.5	11	267	193
106864	205 294	10	6	3.8	190	0.6	5.49	170	2.0	6	3.71	2.5	10	209	186
106865	205 294	20	28	8.2	390	1.4	3.20	80	1.5	2	2.20	10.5	8	243	132
106866	205 294	15	34	11.5	1110	2.8	2.42	120	1.5	< 2	0.81	34.5	16	442	102
106867	205 294	15	30	8.4	300	1.4	2.16	110	1.0	< 2	0.83	14.5	5	341	76
106868	205 294	15	32	6.8	260	1.4	2.27	150	1.5	< 2	0.36	15.5	3	242	55
106869	205 294	< 5	4	3.2	80	0.4	6.24	210	2.0	< 2	0.68	1.5	6	138	41
106870	205 294	5	6	2.4	90	0.4	6.37	250	2.0	< 2	0.60	2.0	6	169	31
106871	205 294	35	42	8.6	210	1.4	3.69	60	1.5	< 2	0.36	6.0	7	230	42
106872	205 294	5	2	1.0	40	< 0.2	4.39	340	1.5	< 2	0.86	1.5	6	207	44
106873	205 294	< 5	2	1.0	40	0.2	5.12	280	1.5	< 2	0.67	1.0	5	141	22
106874	205 294	10	4	4.6	130	0.4	5.09	160	1.5	2	0.51	2.5	6	189	43
106875	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106876	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106877	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION:

Hart Bickler

*INTERFERENCE: Cu ON Bi AND P.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER

Page : 3-B
Total F : 4
Certificate Date: 08-AUG-96
Invoice No. : 19625851
P.O. Number : 6406
Account : GP W

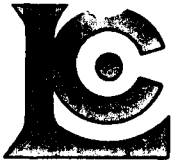
*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625851

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106838	205 294	2.44	2.28	0.71	220	6	0.13	60	900	4	84	0.25	312	< 10	330
106839	205 294	2.44	2.17	0.73	235	6	0.12	53	990	2	90	0.23	298	< 10	298
106840	205 294	2.15	2.22	1.14	555	4	0.10	33	720	6	208	0.18	148	< 10	192
106841	205 294	2.14	1.93	0.67	265	9	0.11	71	1730	2	161	0.18	357	< 10	538
106842	205 294	2.13	1.75	0.58	250	8	0.20	53	1220	< 2	114	0.15	264	< 10	300
106843	205 294	2.25	1.56	0.43	150	16	0.10	85	1640	2	125	0.16	449	< 10	670
106844	205 294	1.63	1.28	0.36	185	12	0.07	75	1490	2	141	0.13	512	< 10	870
106845	205 294	1.85	1.82	0.56	235	16	0.09	100	1370	< 2	156	0.14	457	< 10	738
106846	205 294	2.14	1.85	0.47	165	13	0.11	85	1410	4	89	0.18	406	< 10	608
106847	205 294	1.97	1.99	0.59	190	18	0.21	64	1650	4	111	0.17	415	< 10	530
106848	205 294	3.07	2.04	0.99	300	7	0.10	61	2400	4	224	0.19	273	< 10	328
106849	205 294	2.04	1.36	0.41	175	18	0.06	112	3400	2	266	0.13	455	< 10	778
106850	205 294	2.26	1.72	0.88	330	11	0.06	74	2170	6	222	0.15	331	< 10	454
106851	205 294	2.33	1.53	0.70	215	15	0.04	74	1920	8	176	0.15	282	< 10	624
106852	205 294	2.21	2.26	1.98	410	23	0.05	76	2300	6	274	0.19	516	< 10	576
106853	205 294	2.44	2.20	1.70	370	1	0.08	31	460	4	174	0.19	78	< 10	38
106854	205 294	1.79	1.34	0.39	105	17	0.07	74	2680	4	300	0.13	431	< 10	1040
106855	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106856	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106857	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106858	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106859	205 294	1.66	0.97	0.18	90	24	0.07	76	1590	6	289	0.10	550	< 10	4130
106860	205 294	1.61	0.98	0.20	75	24	0.04	87	4930	8	349	0.11	632	< 10	1700
106861	205 294	3.23	2.40	1.65	320	12	0.06	75	9580	10	380	0.24	373	< 10	376
106862	205 294	3.25	2.54	1.46	230	11	0.07	77	7080	4	297	0.28	378	< 10	348
106863	205 294	3.13	2.28	1.32	220	9	0.09	59	5980	< 2	264	0.19	255	< 10	248
106864	205 294	3.09	2.45	1.64	350	8	0.10	67	6660	< 2	322	0.19	279	< 10	244
106865	205 294	2.15	1.40	0.77	180	23	0.03	96	6090	6	244	0.11	554	< 10	680
106866	205 294	1.41	0.95	0.16	70	20	0.06	199	3880	22	431	0.11	700	< 10	2380
106867	205 294	1.42	0.87	0.16	60	14	0.04	67	3930	< 2	267	0.10	440	< 10	556
106868	205 294	0.96	0.75	0.13	30	10	0.06	49	1660	< 2	162	0.10	409	< 10	558
106869	205 294	2.04	2.54	0.89	145	4	0.49	31	880	12	98	0.24	198	< 10	188
106870	205 294	1.91	2.48	0.87	170	3	0.71	27	870	12	93	0.21	163	< 10	170
106871	205 294	4.06	1.45	0.40	45	13	0.25	81	1410	14	71	0.14	306	< 10	388
106872	205 294	1.83	1.62	0.94	380	3	0.32	29	570	4	113	0.17	121	< 10	118
106873	205 294	1.57	1.82	0.81	215	2	0.65	20	680	6	92	0.15	105	< 10	96
106874	205 294	1.95	1.92	0.66	160	5	0.33	37	950	6	70	0.20	221	< 10	192
106875	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106876	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106877	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION: _____

*INTERFERENCE: Cu ON Bi AND P.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 4-A
 Total Pages: 4
 Certificate Date: 08-AUG-96
 Invoice No.: 19625851
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER

*PLEASE NOTE

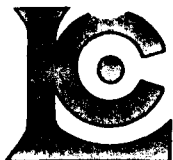
CERTIFICATE OF ANALYSIS A9625851

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
	106878	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106879	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106880	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106881	205	294	< 5	30	11.5	860	1.8	2.14	90	0.5	< 2	0.52	15.5	4	377	92
106882	205	294	10	14	10.0	670	1.6	2.37	80	0.5	2	0.44	16.0	5	202	93
106883	205	294	15	4	3.6	180	0.4	4.45	170	1.5	4	1.50	2.5	12	275	147
106884	205	294	20	2	2.2	100	< 0.2	5.66	240	2.0	4	2.14	1.0	11	170	130
106885	205	294	10	2	1.2	130	< 0.2	5.85	190	2.0	6	1.89	0.5	10	205	168
106886	205	294	15	2	3.0	150	< 0.2	4.50	210	1.5	2	3.71	0.5	13	269	116
106887	205	294	20	8	5.0	150	< 0.2	4.71	150	1.5	4	4.67	2.5	12	198	71
106888	205	294	20	8	3.8	110	0.2	4.65	230	1.5	2	2.58	2.0	11	168	61
106889	205	294	15	4	4.4	70	< 0.2	4.96	110	1.5	2	2.49	0.5	10	170	52
106890	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106891	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106892	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106893	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106894	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106895	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106896	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106897	205	294	25	10	3.8	110	0.4	5.33	120	2.0	2	1.88	1.5	11	221	123
106898	205	294	10	2	2.4	10	< 0.2	5.46	230	1.5	2	1.30	< 0.5	9	142	50
106899	205	294	30	14	4.8	150	0.6	4.96	210	2.0	< 2	2.09	1.5	9	227	123
106900	205	294	15	16	4.2	380	1.2	1.96	180	0.5	2	1.64	16.0	5	465	140

CERTIFICATION:

Hart Buchler

*INTERFERENCE: Cu ON Bi AND P.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 4 of 4-B
 Total : 4
 Certificate Date: 08-AUG-96
 Invoice No. : I9625851
 P.O. Number : 6406
 Account : GPW

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9625851

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106878	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106879	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106880	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106881	205	294	1.94	0.78	0.11	50	28	0.06	116	2670	< 2	195	0.07	730	< 10	910
106882	205	294	2.04	0.95	0.17	55	34	0.06	103	2040	2	103	0.11	828	< 10	1050
106883	205	294	2.74	2.09	1.10	335	10	0.07	64	2180	8	191	0.27	295	< 10	380
106884	205	294	2.32	2.76	1.32	210	5	0.09	55	3550	4	328	0.34	314	< 10	190
106885	205	294	2.01	2.81	1.02	120	4	0.10	59	5870	< 2	337	0.29	267	< 10	180
106886	205	294	2.57	2.21	1.88	545	5	0.06	83	5020	< 2	441	0.20	143	< 10	466
106887	205	294	3.59	2.33	2.87	795	8	0.06	64	1830	10	493	0.22	360	< 10	400
106888	205	294	3.13	2.29	1.78	530	5	0.06	51	1110	6	295	0.21	247	< 10	338
106889	205	294	2.67	2.43	1.70	450	5	0.08	40	760	6	276	0.21	102	< 10	152
106890	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106891	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106892	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106893	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106894	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106895	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106896	--	--	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
106897	205	294	2.89	2.62	1.29	255	6	0.09	50	2810	6	237	0.25	228	< 10	162
106898	205	294	2.37	2.74	1.21	215	1	0.10	31	240	2	113	0.25	75	< 10	56
106899	205	294	3.01	2.50	1.29	275	7	0.08	58	3900	8	282	0.23	235	< 10	206
106900	205	294	1.44	0.99	0.30	45	29	0.01	133	6960	2	212	0.11	1800	< 10	1195

CERTIFICATION: _____

*INTERFERENCE: Cu ON Bi AND P.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 6 3 1 9

BILLING INFORMATION

Date: 15-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9626319

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
85	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	2962.25
Total Cost \$				2962.25
Client Discount (25%) \$				-740.56
Net Cost \$				2221.69
(Reg# R100938885) GST \$				155.52
TOTAL PAYABLE (CDN) \$				2377.21

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 7 6 4 7

BILLING INFORMATION

Date: 23-AUG-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9627647

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
9	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1109.88
Additional charges:				
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00
				Total Cost \$ 1151.88
				Client Discount (25% of \$1144.88)\$ <u>-286.22</u>
				Net Cost \$ 865.66
				(Reg# R100938885) GST \$ <u>60.60</u>
				TOTAL PAYABLE (CDN) \$ 926.26

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot QC 1
 Date: 14-AUG-96
 Invoice #: 19626319
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

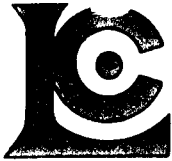
* PLEASE NOTE

QC DATA OF CERTIFICATE A9626319

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	1	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.98	810	2.0	6	2.15	1.5	19	134	220
G90-TOT	std2	1	----	----	----	----	----	7.43	840	2.0	< 2	2.41	2.0	19	138	225
G90-TOT	std1	2	----	----	----	----	----	6.73	810	1.5	2	2.13	1.5	19	142	215
G90-TOT	std2	2	----	----	----	----	----	7.00	870	2.0	8	2.26	2.0	19	146	222
G90-TOT	std1	3	----	----	----	----	----	6.94	780	1.5	2	2.24	2.0	19	138	218
CHEMEX MEAN	----	----	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	62	8.0	210	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	60	7.8	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	62	8.2	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	64	7.8	200	2.8	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94	std1	2	320	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.41	50	< 0.5	< 2	0.16	< 0.5	< 1	3	2	2
SIO2-T3	Blnk	2	----	----	----	----	0.34	50	< 0.5	2	0.03	< 0.5	< 1	1	1	1
CHEMEX MEAN	----	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	2
SL-96	std1	1	700	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std2	2	715	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	810	----	----	----	----	----	----	----	----	----	----	----	----	----
106855	Dup1-01		< 5	10	10.0	1600	2.2	1.64	340	0.5	< 2	0.32	41.5	5	205	65
	Orig1-01		< 5	8	9.6	1470	2.0	1.64	250	0.5	4	0.32	39.5	5	201	65
106924	Dup2-01		< 5	2	0.4	30	< 0.2	2.59	5120	0.5	4	0.07	< 0.5	10	144	60
	Orig2-01		< 5	2	0.4	10	< 0.2	2.68	5300	0.5	4	0.08	< 0.5	10	153	62

CERTIFICATION: *Hart Buchler*

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-B
 Tot QC 1
 Date: 14-AUG-96
 Invoice #: I9626319
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9626319

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	3.94	1.82	1.01	1075	8	1.83	81	1150	----	334	0.34	110	< 10	244
G90-TOT	std2	1	4.05	1.83	1.06	1090	9	1.88	78	1180	----	347	0.35	111	< 10	258
G90-TOT	std1	2	3.86	1.71	0.99	1040	8	1.73	76	1140	----	325	0.34	107	< 10	238
G90-TOT	std2	2	3.99	1.81	1.02	1100	8	1.76	82	1240	----	339	0.35	111	< 10	240
G90-TOT	std1	3	3.97	1.73	1.07	1080	7	1.77	79	1180	----	330	0.34	112	< 10	238
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	std1	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	396	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	196	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	4	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.07	0.05	0.02	10	< 1	0.01	< 1	180	----	147	0.01	4	< 10	4
SIO2-T3	Blnk	2	0.06	0.10	0.01	5	< 1	0.02	1	190	----	149	0.01	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
106855	Dup1-01		1.08	0.59	0.10	40	27	0.03	98	1610	10	160	0.07	541	< 10	3280
	Orig1-01		1.09	0.59	0.12	40	26	0.03	99	1620	6	157	0.06	534	< 10	3220
106924	Dup2-01		1.62	0.84	0.45	1020	4	0.01	41	280	10	14	0.14	66	< 10	92
	Orig2-01		1.66	0.90	0.46	1060	4	0.03	41	290	10	15	0.14	68	< 10	96

CERTIFICATION: David B. Jones

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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CERTIFICATE

A9626319

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 14-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	85	Geochem ring to approx 150 mesh
226	85	0-3 Kg crush and split
3202	85	Rock - save entire reject
285	85	ICP - HF digestion charge
287	85	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	85	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	85	As ppm: HNO ₃ -aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	85	Sb ppm: HCl-KClO ₃ digest, extrac	AAS-BKGD CORR	0.2	1000
20	85	Hg ppb: HNO ₃ -HCl digestion	AAS-FLAMELESS	10	100000
578	85	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	85	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	85	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	85	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	85	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	85	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	85	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	85	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	85	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	85	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	85	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	85	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	85	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	85	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	85	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	85	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	85	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	85	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	85	Pb ppm: 24 element, rock & core	AAS	2	10000
582	85	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	85	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	85	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	85	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	85	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page 1-A
Total 3
Certificate Date: 14-AUG-96
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P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626319

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106855	205 226	< 5	8	9.6	1470	2.0	1.64	250	0.5	4	0.32	39.5	5	201	65
106856	205 226	< 5	8	9.4	1370	5.2	1.55	240	0.5	2	0.49	52.0	4	254	62
106857	205 226	< 5	10	12.5	600	2.2	1.94	430	0.5	< 2	0.44	26.0	5	187	48
106858	205 226	< 5	20	16.5	2560	3.2	2.25	510	0.5	< 2	0.43	68.5	6	252	55
106875	205 226	15	20	6.8	150	1.0	4.95	1020	1.5	4	0.32	4.0	8	141	51
106876	205 226	10	4	4.6	620	2.6	4.23	750	1.5	< 2	0.29	1.5	10	192	48
106877	205 226	20	18	9.0	450	1.4	3.41	660	1.5	< 2	0.81	7.5	7	188	70
106878	205 226	25	16	8.0	280	1.4	4.13	1180	1.5	4	2.24	6.5	10	264	107
106879	205 226	15	14	7.0	460	1.2	3.54	640	1.5	< 2	0.90	9.0	7	191	75
106880	205 226	30	6	4.4	330	1.4	6.11	780	2.5	2	1.66	1.0	11	175	199
106890	205 226	10	2	2.4	20	< 0.2	4.65	520	1.5	4	1.30	0.5	10	112	46
106891	205 226	10	1	2.0	30	< 0.2	5.08	350	1.5	6	0.55	< 0.5	8	105	48
106892	205 226	< 5	2	2.0	10	< 0.2	4.70	1220	1.5	8	4.59	< 0.5	6	88	24
106893	205 226	< 5	2	2.0	30	< 0.2	4.83	1020	1.5	2	1.44	< 0.5	7	129	40
106894	205 226	5	1	2.8	20	< 0.2	4.72	1290	1.5	2	1.23	< 0.5	10	95	44
106895	205 226	5	1	1.8	< 10	< 0.2	4.88	1050	1.5	6	1.59	< 0.5	9	104	39
106896	205 226	10	2	2.4	30	< 0.2	4.62	1250	1.5	2	1.16	< 0.5	9	87	53
106901	205 226	< 5	1	0.8	40	< 0.2	3.45	4530	0.5	< 2	0.05	0.5	8	163	55
106902	205 226	< 5	2	0.8	20	< 0.2	2.80	3920	0.5	< 2	0.05	< 0.5	9	98	76
106903	205 226	10	2	0.8	40	< 0.2	3.91	5790	1.0	14	0.03	0.5	11	257	77
106904	205 226	< 5	2	0.8	< 10	< 0.2	3.04	5190	0.5	4	0.05	< 0.5	8	103	56
106905	205 226	< 5	1	0.8	10	< 0.2	2.83	4970	0.5	< 2	0.03	0.5	10	192	62
106906	205 226	< 5	1	0.6	10	< 0.2	2.79	4450	0.5	6	0.04	< 0.5	7	94	67
106907	205 226	< 5	1	0.8	10	< 0.2	2.71	4620	0.5	< 2	0.03	< 0.5	8	124	58
106908	205 226	< 5	2	0.6	< 10	< 0.2	3.11	4160	0.5	< 2	0.06	0.5	11	138	63
106909	205 226	< 5	1	0.6	< 10	< 0.2	2.84	4390	0.5	2	0.04	< 0.5	8	164	57
106910	205 226	< 5	2	0.6	10	< 0.2	3.71	5370	1.0	< 2	0.04	0.5	13	127	78
106911	205 226	< 5	2	0.6	10	< 0.2	3.06	4720	0.5	2	0.02	< 0.5	7	166	67
106912	205 226	< 5	2	0.6	< 10	< 0.2	3.09	4960	0.5	2	0.05	< 0.5	14	174	68
106913	205 226	< 5	1	0.8	< 10	< 0.2	3.22	5210	0.5	6	0.03	< 0.5	9	136	72
106914	205 226	< 5	2	0.4	10	< 0.2	3.15	5810	0.5	4	0.03	< 0.5	10	114	72
106915	205 226	15	2	0.6	< 10	< 0.2	3.39	7480	0.5	2	0.03	< 0.5	8	193	71
106916	205 226	20	1	0.4	< 10	< 0.2	3.22	6770	0.5	6	0.04	< 0.5	8	103	80
106917	205 226	< 5	2	0.4	< 10	< 0.2	3.08	2270	0.5	< 2	0.03	< 0.5	4	122	84
106918	205 226	< 5	2	0.4	< 10	< 0.2	3.14	1110	0.5	< 2	0.04	< 0.5	9	85	74
106919	205 226	15	1	0.4	< 10	1.8	2.83	4470	0.5	26	0.09	2.0	6	99	64
106920	205 226	< 5	8	0.4	< 10	< 0.2	3.81	4400	0.5	< 2	0.10	0.5	17	66	76
106921	205 226	< 5	2	0.4	10	< 0.2	3.24	4160	0.5	< 2	0.12	2.0	12	156	78
106922	205 226	< 5	4	0.6	< 10	< 0.2	3.42	4090	0.5	2	0.17	< 0.5	12	123	75
106923	205 226	< 5	4	0.4	< 10	< 0.2	3.18	4150	0.5	2	0.13	0.5	9	118	54

CERTIFICATION:

Hart Buchler



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Page: 1-B
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626319

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106855	205 226	1.09	0.59	0.12	40	26	0.03	99	1620	6	157	0.06	534	< 10	3220
106856	205 226	1.05	0.56	0.10	100	22	0.03	88	2520	12	213	0.06	471	< 10	4810
106857	205 226	1.14	0.71	0.11	45	16	0.03	70	2450	8	247	0.07	387	< 10	1990
106858	205 226	1.40	0.88	0.16	75	21	0.04	76	2250	10	385	0.09	507	< 10	6260
106875	205 226	2.96	2.09	0.57	105	9	0.09	65	1290	14	58	0.19	312	< 10	330
106876	205 226	2.34	1.73	0.52	95	5	0.08	159	720	12	44	0.18	150	< 10	1030
106877	205 226	2.22	1.42	0.41	110	22	0.06	93	3290	14	154	0.14	485	< 10	512
106878	205 226	2.39	2.04	1.06	320	16	0.04	80	4650	14	319	0.19	400	< 10	400
106879	205 226	1.80	1.58	0.48	115	22	0.06	112	3690	10	207	0.14	536	< 10	780
106880	205 226	2.79	2.87	1.25	190	4	0.09	54	3670	14	236	0.29	199	< 10	210
106890	205 226	2.50	2.34	1.21	195	< 1	0.06	27	300	6	122	0.20	68	< 10	72
106891	205 226	2.03	2.58	0.80	60	1	0.08	34	670	6	64	0.21	80	< 10	80
106892	205 226	1.82	2.38	2.45	500	< 1	0.08	25	290	4	351	0.23	52	< 10	44
106893	205 226	1.96	2.47	1.30	210	1	0.05	23	580	4	181	0.23	82	< 10	64
106894	205 226	2.33	2.42	1.20	205	1	0.06	27	330	6	135	0.22	83	< 10	54
106895	205 226	1.87	2.53	1.35	275	< 1	0.06	24	270	6	165	0.23	58	< 10	46
106896	205 226	2.26	2.38	1.17	330	1	0.06	25	220	4	130	0.23	67	< 10	48
106901	205 226	2.03	1.23	0.44	300	2	0.04	39	350	6	15	0.20	86	< 10	122
106902	205 226	1.76	1.03	0.43	1125	2	0.02	47	210	6	18	0.15	70	< 10	120
106903	205 226	2.54	1.59	0.41	580	2	0.04	58	370	8	31	0.23	106	< 10	146
106904	205 226	1.72	1.04	0.49	375	1	0.03	30	290	6	12	0.15	82	< 10	132
106905	205 226	1.71	1.04	0.35	910	4	0.02	40	230	12	13	0.16	84	< 10	102
106906	205 226	1.71	0.98	0.36	450	1	0.02	41	230	6	13	0.14	72	< 10	118
106907	205 226	1.65	1.01	0.40	500	3	0.02	39	200	6	14	0.15	82	< 10	110
106908	205 226	2.02	0.94	0.49	900	1	0.02	45	280	8	16	0.14	75	< 10	142
106909	205 226	1.80	0.98	0.45	510	2	0.03	36	230	6	13	0.13	75	< 10	104
106910	205 226	2.25	1.25	0.50	855	3	0.03	43	350	6	21	0.18	90	< 10	124
106911	205 226	1.82	1.13	0.37	235	1	0.03	28	230	4	11	0.14	83	< 10	84
106912	205 226	2.02	1.06	0.49	940	1	0.02	48	280	6	12	0.15	80	< 10	116
106913	205 226	1.57	1.17	0.38	315	1	0.04	29	280	4	10	0.14	93	< 10	70
106914	205 226	1.91	1.05	0.38	1515	1	0.02	35	290	4	21	0.15	90	< 10	94
106915	205 226	2.35	1.22	0.59	1295	2	0.04	28	310	4	19	0.17	93	< 10	72
106916	205 226	1.79	1.13	0.54	2560	1	0.03	36	220	4	29	0.15	89	< 10	82
106917	205 226	1.61	1.16	0.69	155	1	0.03	19	170	860	15	0.14	87	< 10	48
106918	205 226	1.57	1.26	0.64	135	1	0.04	34	180	436	19	0.15	99	< 10	60
106919	205 226	1.57	1.01	0.68	330	1	0.02	24	300	32	21	0.15	76	< 10	56
106920	205 226	2.47	0.89	0.88	2610	1	0.45	33	350	390	34	0.22	83	< 10	72
106921	205 226	2.13	0.91	0.73	1675	1	0.39	38	300	272	31	0.19	73	< 10	74
106922	205 226	2.15	1.14	0.74	1170	7	0.24	42	330	8	33	0.18	77	< 10	78
106923	205 226	1.83	1.26	0.64	740	3	0.04	34	470	8	22	0.16	70	< 10	82

CERTIFICATION: Hank B...

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 2-A
Total Pages: 3
Certificate Date: 14-AUG-96
Invoice No.: 19626319
P.O. Number:
Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626319

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106924	205 226	< 5	2	0.4	10	< 0.2	2.68	5300	0.5	4	0.08	< 0.5	10	153	62
106925	205 226	< 5	1	0.4	< 10	< 0.2	2.17	2750	0.5	< 2	0.12	< 0.5	15	58	66
106926	205 226	< 5	2	0.4	< 10	< 0.2	3.25	7240	0.5	8	0.13	< 0.5	17	94	81
106927	205 226	< 5	2	0.2	10	< 0.2	2.84	2480	0.5	< 2	0.12	< 0.5	11	67	54
106928	205 226	< 5	1	0.4	10	< 0.2	3.08	3600	0.5	4	0.08	< 0.5	11	161	76
106929	205 226	< 5	2	0.4	10	< 0.2	3.32	7930	0.5	2	0.08	0.5	11	162	85
106930	205 226	< 5	10	0.6	60	< 0.2	5.28	>10000	1.5	8	0.10	0.5	14	307	119
106931	205 226	< 5	6	0.4	30	< 0.2	2.94	6640	0.5	< 2	0.02	< 0.5	10	168	185
106932	205 226	15	16	1.0	50	< 0.2	5.11	>10000	1.5	< 2	0.08	0.5	10	218	105
106933	205 226	< 5	2	0.8	30	< 0.2	3.97	1440	1.0	< 2	0.03	0.5	5	195	69
106934	205 226	< 5	2	0.6	10	< 0.2	3.26	7130	1.0	< 2	0.01	0.5	13	202	51
106935	205 226	< 5	2	0.4	10	< 0.2	2.60	7770	0.5	< 2	0.01	< 0.5	4	108	29
106936	205 226	< 5	4	0.8	20	< 0.2	2.48	960	0.5	< 2	0.01	< 0.5	3	161	60
106937	205 226	< 5	14	1.4	60	< 0.2	2.41	5630	1.0	10	0.02	< 0.5	6	190	76
106938	205 226	15	4	1.4	70	< 0.2	2.71	8530	1.0	< 2	< 0.01	< 0.5	3	156	34
106939	205 226	< 5	4	1.8	40	< 0.2	3.41	8950	1.0	< 2	0.01	< 0.5	5	96	41
106940	205 226	< 5	4	1.8	40	< 0.2	2.90	7030	1.0	< 2	0.01	< 0.5	4	140	31
106941	205 226	< 5	6	1.2	50	< 0.2	2.75	9010	1.5	< 2	< 0.01	< 0.5	4	85	41
106942	205 226	< 5	2	1.2	140	< 0.2	2.67	7270	2.0	6	0.01	< 0.5	5	86	34
106943	205 226	< 5	4	1.2	130	< 0.2	3.05	8540	2.5	2	0.01	< 0.5	12	86	73
106944	205 226	< 5	4	1.0	130	< 0.2	1.95	4730	0.5	2	0.01	< 0.5	2	116	38
106945	205 226	< 5	4	0.8	40	< 0.2	5.60	6050	2.0	< 2	1.91	1.0	16	92	72
106946	205 226	30	2	1.2	30	< 0.2	5.12	1600	1.0	< 2	3.42	3.0	8	61	75
106947	205 226	< 5	6	0.8	20	< 0.2	4.58	6230	2.0	4	2.93	0.5	10	74	46
106948	205 226	15	2	0.8	10	< 0.2	2.80	170	2.5	4	3.27	2.0	6	131	45
106949	205 226	< 5	2	0.8	20	< 0.2	4.86	>10000	3.0	2	2.41	< 0.5	9	78	40
106950	205 226	20	2	0.8	60	< 0.2	2.39	290	7.0	< 2	2.30	4.0	5	82	49
171001	205 226	10	2	0.6	10	< 0.2	3.54	430	5.5	< 2	1.87	2.0	15	114	75
171002	205 226	< 5	4	1.4	4140	0.4	2.94	410	5.0	< 2	0.33	20.5	16	267	129
171003	205 226	< 5	8	0.8	50	< 0.2	4.03	550	5.0	< 2	0.13	2.0	11	153	73
171004	205 226	< 5	14	0.6	150	< 0.2	3.25	650	4.5	2	2.64	5.5	14	115	162
171005	205 226	10	24	0.4	10	< 0.2	4.69	770	8.5	2	0.64	1.5	12	134	155
171006	205 226	10	18	0.8	110	0.4	3.72	530	5.0	< 2	0.53	9.5	13	167	123
171007	205 226	< 5	10	0.8	30	< 0.2	4.59	600	9.5	< 2	0.85	5.0	16	145	174
171008	205 226	35	18	3.2	70	0.6	4.13	310	2.0	< 2	0.85	4.5	7	177	265
171009	205 226	10	6	1.4	20	< 0.2	2.59	150	2.0	< 2	0.82	4.0	8	131	306
171010	205 226	10	40	1.8	120	< 0.2	2.95	560	3.0	2	2.80	5.0	26	119	76
171011	205 226	< 5	8	0.4	10	< 0.2	5.03	2020	4.5	< 2	1.97	1.0	14	82	49
171012	205 226	< 5	24	0.8	30	< 0.2	1.82	170	9.0	< 2	4.30	4.0	6	82	39
171013	205 226	5	8	0.6	20	< 0.2	3.25	290	6.0	< 2	4.22	3.5	12	133	75

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 2-B
 Total P. : 3
 Certificate Date: 14-AUG-96
 Invoice No. : 19626319
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626319

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106924	205 226	1.66	0.90	0.46	1060	4	0.03	41	290	10	15	0.14	68	< 10	96
106925	205 226	1.69	0.52	0.53	2280	< 1	0.01	32	300	8	21	0.13	53	< 10	74
106926	205 226	2.28	0.62	0.88	1515	1	0.60	28	330	12	90	0.18	76	< 10	64
106927	205 226	1.76	0.71	0.64	1040	< 1	0.08	28	290	6	27	0.15	65	< 10	52
106928	205 226	1.92	1.22	0.47	790	1	0.03	35	250	< 2	26	0.15	62	< 10	72
106929	205 226	2.68	1.08	0.59	700	< 1	0.03	42	380	< 2	37	0.16	72	< 10	98
106930	205 226	4.11	1.97	0.64	315	4	0.07	119	780	12	62	0.27	179	< 10	248
106931	205 226	2.19	0.99	0.48	205	1	0.03	107	310	2	19	0.14	83	< 10	220
106932	205 226	3.08	1.81	0.58	115	3	0.07	93	400	6	46	0.26	165	< 10	154
106933	205 226	2.90	1.32	0.42	75	1	0.05	46	430	6	68	0.19	120	< 10	96
106934	205 226	1.94	1.35	0.44	40	1	0.03	34	300	6	34	0.17	126	20	68
106935	205 226	0.99	1.03	0.21	45	1	0.03	18	190	< 2	14	0.13	93	< 10	32
106936	205 226	1.59	0.55	0.14	35	6	0.02	30	270	< 2	22	0.09	71	< 10	42
106937	205 226	2.08	0.75	0.18	110	8	0.01	64	540	4	15	0.09	94	< 10	90
106938	205 226	0.92	1.21	0.25	45	3	0.02	36	200	4	37	0.11	115	< 10	46
106939	205 226	1.20	1.23	0.28	70	3	0.04	23	230	2	24	0.13	89	< 10	44
106940	205 226	0.92	0.96	0.22	40	2	0.03	14	180	8	15	0.11	73	< 10	36
106941	205 226	1.08	1.20	0.26	45	3	0.04	18	210	16	14	0.11	102	< 10	54
106942	205 226	1.15	0.96	0.25	295	5	0.03	18	160	28	24	0.11	120	< 10	108
106943	205 226	1.14	1.07	0.25	685	2	0.03	51	200	20	15	0.12	140	< 10	120
106944	205 226	0.66	0.70	0.14	20	1	0.01	13	150	18	4	0.07	84	< 10	46
106945	205 226	3.99	2.41	0.53	3520	1	0.06	27	1080	14	78	0.25	103	< 10	280
106946	205 226	11.30	2.17	1.21	6190	4	0.07	27	580	8	101	0.21	84	< 10	86
106947	205 226	2.65	2.08	0.55	1780	1	0.03	21	1080	24	96	0.19	122	< 10	56
106948	205 226	7.04	1.08	0.67	2780	2	0.07	24	1050	4	191	0.10	167	< 10	22
106949	205 226	2.10	1.52	0.54	1245	3	0.96	20	780	24	154	0.19	100	< 10	18
106950	205 226	10.55	0.67	0.57	3360	6	0.06	21	1210	4	231	0.09	163	< 10	258
171001	205 226	3.48	1.45	0.55	2450	1	0.03	40	1570	42	119	0.16	298	< 10	144
171002	205 226	2.84	1.23	0.28	540	4	0.04	38	790	1260	17	0.13	175	< 10	7710
171003	205 226	3.14	1.73	0.33	225	2	0.06	35	530	36	12	0.15	180	< 10	230
171004	205 226	3.09	1.36	0.52	2790	2	0.02	52	2020	40	96	0.15	304	< 10	502
171005	205 226	3.73	2.09	0.39	385	1	0.06	60	2590	26	40	0.22	385	< 10	90
171006	205 226	3.06	0.59	0.14	945	3	0.06	66	2430	220	79	0.17	309	< 10	620
171007	205 226	8.41	0.88	0.58	4520	4	0.06	80	2080	96	96	0.18	375	< 10	176
171008	205 226	15.50	0.10	0.05	310	8	0.08	80	5280	116	97	0.13	211	< 10	308
171009	205 226	10.40	0.19	0.08	335	4	0.02	65	4420	14	106	0.11	327	< 10	260
171010	205 226	4.41	1.24	0.90	3550	1	0.02	54	930	56	66	0.12	176	< 10	548
171011	205 226	2.94	2.04	0.55	2900	2	0.05	34	1150	24	76	0.22	148	< 10	316
171012	205 226	11.60	0.15	0.87	6710	4	0.05	27	1150	10	314	0.07	150	< 10	200
171013	205 226	4.89	0.63	0.53	3410	4	0.03	46	2250	42	272	0.15	276	< 10	354

CERTIFICATION:

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page : 3-A
Total Pages : 3
Certificate Date: 14-AUG-96
Invoice No. : 19626319
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626319

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171014	205 226	< 5	12	0.6	10	< 0.2	4.82	1270	5.0	< 2	2.14	0.5	13	140	61
171015	205 226	5	12	0.8	30	< 0.2	2.82	200	2.0	< 2	2.88	3.5	11	131	80
171016	205 226	< 5	4	1.8	80	< 0.2	8.24	1810	7.0	< 2	0.54	0.5	4	89	25
171017	205 226	< 5	4	1.4	110	< 0.2	2.32	560	2.0	< 2	0.12	6.5	3	205	31
171018	205 226	< 5	4	1.0	110	< 0.2	7.47	2220	6.0	< 2	0.87	1.0	4	51	14

CERTIFICATION:

Hart Beckler

*Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 6 5 8 9

BILLING INFORMATION

Date: 5-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9626589

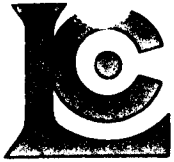
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex	0.00		
	312 - Pb %	8.00		
	316 - Zn %	8.00	16.00	16.00
Total Cost \$				16.00
Client Discount (25%) \$				-4.00
Net Cost \$				12.00
(Reg# R100938885) GST \$				0.84
TOTAL PAYABLE (CDN) \$				12.84

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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TO: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9626589

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9626589

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
312	1	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

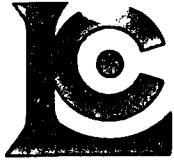
Page : 1
Total : 1
Certificate Date: 04-AUG-96
Invoice No. : I9626589
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9626589

SAMPLE	PREP CODE	Pb %	Zn %								
107059A	244 --	1.16	2.72								

CERTIFICATION: 



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

D: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 6 8 7 6

BILLING INFORMATION

Date: 20-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

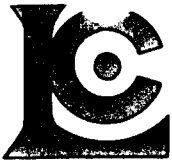
Billing: For analysis performed on
Certificate A9626876

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT	
91	3202 - Rock - save entire reject	0.50			
	205 - Geochem ring to approx 150 mesh	2.50			
	294 - 4-7 Kg crush and split	3.50			
	ICP-T27 total digest ICP	20.00			
	983 - Au ppb FA+AA	9.75	36.25	3298.75	
				Total Cost \$	3298.75
				Client Discount (25%) \$	<u>-824.69</u>
				Net Cost \$	2474.06
				(Reg# R100938885) GST \$	<u>173.18</u>
				TOTAL PAYABLE (CDN) \$	2647.24



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 British Columbia, Canada V7J 2C1
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to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P
 Tot Q
 Date: 20-AUG-96
 Invoice #: I9626876
 P.O. #: 1-A
 1
 19626876
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9626876

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	Std2	1	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	----	----	----	----	----	6.92	780	1.5	4	2.19	0.5	18	141	218
G90-TOT	std2	1	----	----	----	----	----	6.96	790	1.5	< 2	2.26	1.0	18	138	220
G90-TOT	Std1	2	----	----	----	----	----	6.99	790	1.5	8	2.30	1.0	20	137	216
G90-TOT	Std2	2	----	----	----	----	----	6.85	760	1.5	2	2.21	0.5	19	139	216
G90-TOT	std1	3	----	----	----	----	----	7.06	770	1.5	4	2.25	1.5	19	137	221
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	Std1	1	----	62	8.0	180	3.0	----	----	----	----	----	----	----	----	----
GEO-90	Std2	1	----	64	7.2	190	3.0	----	----	----	----	----	----	----	----	----
GEO-90	Std1	2	----	66	7.8	270	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	64	7.8	240	2.6	----	----	----	----	----	----	----	----	----
GEO-90	Std1	3	----	60	7.6	190	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
KB-1	Std1	1	50	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	48	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.29	30	< 0.5	< 2	0.01	< 0.5	< 1	2	< 1	
SIO2-T3	Blnk	2	----	----	----	----	0.29	30	< 0.5	< 2	0.02	< 0.5	< 1	5	1	
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	
SL-96	Std2	2	780	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	810	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	Std1	3	450	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	448	----	----	----	----	----	----	----	----	----	----	----	----	----
171019	Dup1-01		15	2	2.4	160	< 0.2	4.48	280	4.0	< 2	0.29	1.5	10	115	66
	Orig1-01		15	4	2.4	200	< 0.2	4.42	290	4.0	< 2	0.24	1.0	8	111	65
171059	Dup2-01		10	2	0.4	140	< 0.2	3.92	340	3.0	< 2	0.54	< 0.5	6	85	56
	Orig2-01		< 5	1	0.4	100	< 0.2	3.90	380	2.5	< 2	0.53	< 0.5	5	118	53

CERTIFICATION: Hart Buchler



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC Pr
Tot Q
Date:
Invoice #:
P.O. #:
1-B
1
20-AUG-96
19626876

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

GP W

QC DATA OF CERTIFICATE A9626876

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	3.89	1.78	1.01	1035	8	1.74	79	1210	-----	318	0.34	103	10	236
G90-TOT	std2	1	3.91	1.78	1.01	1055	9	1.74	76	1200	-----	318	0.34	103	10	240
G90-TOT	std1	2	4.02	1.82	1.02	1070	9	1.77	83	1260	-----	323	0.35	109	< 10	268
G90-TOT	std2	2	3.87	1.75	0.99	1030	7	1.74	79	1200	-----	317	0.33	104	10	238
G90-TOT	std1	3	3.96	1.80	1.01	1055	6	1.79	82	1240	-----	322	0.34	105	10	242
CHEMEX MEAN	----	----	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90	std1	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	210	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	std1	3	----	----	----	----	----	----	----	----	200	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	195	----	----	----	----	----
KB-1	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.05	0.04	0.01	< 5	< 1	0.01	< 1	140	-----	137	0.01	1	< 10	< 2
SIO2-T3	Blnk	2	0.05	0.06	0.01	< 5	< 1	0.01	2	150	-----	132	0.01	3	< 10	< 2
CHEMEX MEAN	----	----	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
SL-96	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
171019	Dup1-01		2.36	2.08	0.45	405	4	0.13	37	580	16	22	0.15	140	< 10	456
	Orig1-01		2.38	1.65	0.45	400	4	0.12	36	570	16	21	0.14	140	< 10	462
171059	Dup2-01		2.64	1.51	0.46	290	12	0.07	26	330	6	195	0.19	104	< 10	204
	Orig2-01		2.62	1.49	0.46	290	11	0.07	24	320	4	188	0.18	103	< 10	190

CERTIFICATION: Stuart Boucher



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9626876

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9626876

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 20-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
3202	91	Rock - save entire reject
205	91	Geochem ring to approx 150 mesh
294	91	4-7 Kg crush and split
285	91	ICP - HF digestion charge
287	91	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	91	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	91	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	91	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	91	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	91	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	91	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	91	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	91	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	91	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	91	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	91	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	91	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	91	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	91	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	91	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	91	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	91	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	91	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	91	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	91	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	91	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	91	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	91	Pb ppm: 24 element, rock & core	AAS	2	10000
582	91	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	91	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	91	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	91	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	91	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-A
 Total F : 3
 Certificate Date: 20-AUG-96
 Invoice No. : I9626876
 P.O. Number :
 Account : GPW

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9626876

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171019	3202 205	15	4	2.4	200	< 0.2	4.42	290	4.0	< 2	0.24	1.0	8	111	65
171020	3202 205	< 5	1	0.6	40	< 0.2	8.26	870	6.0	< 2	1.05	< 0.5	5	20	27
171021	3202 205	< 5	1	0.2	30	< 0.2	8.84	2210	6.0	< 2	0.72	< 0.5	4	19	13
171022	3202 205	< 5	2	1.2	250	0.4	2.19	330	3.5	< 2	0.33	2.0	5	121	52
171023	3202 205	10	1	< 0.2	80	< 0.2	1.90	540	2.0	< 2	0.97	1.0	4	170	28
171024	3202 205	5	1	0.2	40	< 0.2	2.88	800	3.0	< 2	0.12	0.5	5	86	46
171025	3202 205	5	1	< 0.2	170	< 0.2	3.08	280	3.0	< 2	0.10	2.0	5	77	57
171026	3202 205	10	1	1.2	140	< 0.2	2.43	180	3.0	< 2	0.08	1.5	5	147	73
171027	3202 205	10	4	1.2	190	< 0.2	2.40	200	3.0	< 2	0.14	5.0	5	142	59
171028	3202 205	15	8	0.6	370	< 0.2	2.92	150	3.0	< 2	0.20	8.5	4	110	70
171029	3202 205	10	1	0.2	40	< 0.2	2.51	270	2.5	< 2	0.14	< 0.5	5	75	47
171030	3202 205	5	1	0.2	250	0.4	2.56	260	2.0	< 2	0.09	< 0.5	4	90	63
171031	3202 205	10	1	0.4	30	0.4	2.02	310	0.5	< 2	0.08	< 0.5	3	143	62
171032	3202 205	10	1	0.8	50	0.2	2.06	320	0.5	< 2	0.13	< 0.5	5	139	71
171033	3202 205	5	6	0.4	30	< 0.2	1.97	210	0.5	< 2	0.20	< 0.5	4	150	73
171034	3202 205	5	1	0.6	20	< 0.2	1.49	240	< 0.5	< 2	0.07	< 0.5	4	137	62
171035	3202 205	10	4	0.8	30	< 0.2	1.97	190	0.5	< 2	0.08	< 0.5	5	140	81
171036	3202 205	5	2	< 0.2	10	< 0.2	2.46	1090	0.5	< 2	0.11	< 0.5	4	133	76
171037	3202 205	5	2	< 0.2	10	< 0.2	2.68	1260	0.5	< 2	0.11	< 0.5	6	149	83
171038	3202 205	5	8	< 0.2	10	< 0.2	2.19	240	0.5	< 2	0.15	< 0.5	4	126	67
171039	3202 205	5	2	0.6	120	< 0.2	1.73	360	1.5	< 2	0.13	1.5	4	122	62
171040	3202 205	< 5	1	0.6	60	< 0.2	2.01	310	2.0	< 2	0.11	< 0.5	2	133	65
171041	3202 205	5	1	0.4	460	< 0.2	1.48	270	0.5	< 2	0.19	0.5	3	73	63
171042	3202 205	10	1	4.2	170	< 0.2	1.92	130	7.5	< 2	0.26	< 0.5	4	148	84
171043	3202 205	< 5	1	1.0	10	< 0.2	0.50	910	5.0	< 2	0.30	< 0.5	< 1	140	21
171044	3202 205	15	1	1.2	440	0.6	2.28	270	5.5	< 2	0.04	3.5	4	157	64
171045	3202 205	10	6	1.0	40	< 0.2	1.96	250	1.5	< 2	0.10	< 0.5	5	167	68
171046	3202 205	10	4	0.6	30	< 0.2	1.69	220	0.5	< 2	0.26	< 0.5	4	152	60
171047	3202 205	10	2	0.6	30	< 0.2	1.89	190	0.5	< 2	0.29	< 0.5	4	162	66
171048	3202 205	10	2	0.6	30	0.4	2.18	370	0.5	< 2	2.72	< 0.5	4	152	63
171049	3202 205	50	1	1.2	40	0.4	1.51	50	< 0.5	< 2	1.01	< 0.5	4	114	56
171050	3202 205	5	2	0.6	40	< 0.2	2.64	540	0.5	< 2	0.30	< 0.5	4	115	64
171051	3202 205	5	12	0.6	30	< 0.2	3.15	380	0.5	< 2	0.53	< 0.5	6	138	57
171052	3202 205	10	10	0.6	100	< 0.2	2.40	350	0.5	< 2	0.20	< 0.5	6	112	62
171053	3202 205	5	1	0.4	10	< 0.2	3.55	7000	1.0	< 2	0.09	< 0.5	5	151	68
171054	3202 205	5	1	0.4	10	< 0.2	3.86	3520	1.0	< 2	0.07	< 0.5	4	132	96
171055	3202 205	10	1	0.6	30	< 0.2	3.71	5070	0.5	< 2	0.15	< 0.5	5	117	46
171056	3202 205	10	6	4.6	170	0.4	3.18	210	0.5	< 2	4.96	< 0.5	16	132	91
171057	3202 205	5	1	0.4	10	< 0.2	3.91	4880	1.0	< 2	0.14	< 0.5	4	151	58
171058	3202 205	< 5	2	0.4	10	< 0.2	3.85	900	1.0	< 2	0.90	< 0.5	9	113	56

CERTIFICATION: *Hart Becker*



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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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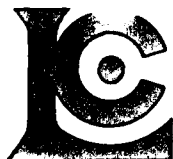
Page er :1-B
 Total : 3
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 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9626876

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171019	3202 205	2.38	1.65	0.45	400	4	0.12	36	570	16	21	0.14	140	< 10	462
171020	3202 205	2.31	3.63	1.13	625	4	0.16	24	280	20	60	0.12	18	< 10	252
171021	3202 205	2.10	3.62	1.10	365	3	0.21	12	260	34	51	0.14	16	< 10	168
171022	3202 205	1.56	0.85	0.30	320	14	0.05	21	130	400	23	0.09	87	< 10	768
171023	3202 205	11.80	0.15	0.39	405	15	0.02	16	710	120	166	0.08	73	< 10	328
171024	3202 205	1.64	1.09	0.32	55	3	0.06	14	170	92	181	0.11	89	< 10	84
171025	3202 205	1.06	1.31	0.34	70	3	0.06	20	140	20	67	0.11	120	< 10	444
171026	3202 205	1.49	1.18	0.27	320	4	0.05	33	170	50	19	0.09	145	< 10	730
171027	3202 205	1.16	1.16	0.25	170	2	0.04	33	590	44	42	0.09	136	< 10	946
171028	3202 205	1.70	1.09	0.28	150	6	0.07	25	490	72	128	0.09	110	< 10	1780
171029	3202 205	1.26	1.05	0.26	135	11	0.06	22	140	26	76	0.09	97	< 10	176
171030	3202 205	1.12	0.58	0.18	195	5	0.04	32	100	44	68	0.08	80	< 10	1030
171031	3202 205	1.01	0.58	0.16	120	< 1	0.04	15	260	< 2	34	0.06	81	< 10	162
171032	3202 205	1.11	0.53	0.16	280	3	0.03	61	100	< 2	37	0.07	78	< 10	220
171033	3202 205	1.06	0.37	0.12	325	1	0.03	35	100	< 2	18	0.06	74	< 10	192
171034	3202 205	0.90	0.28	0.09	185	1	0.03	32	120	< 2	36	0.04	61	< 10	140
171035	3202 205	1.25	0.41	0.12	255	3	0.04	46	250	< 2	52	0.06	73	< 10	226
171036	3202 205	1.56	0.38	0.15	595	4	0.05	35	150	< 2	56	0.08	65	< 10	236
171037	3202 205	1.35	0.85	0.26	535	1	0.05	42	190	< 2	28	0.11	74	< 10	168
171038	3202 205	1.29	0.53	0.20	215	1	0.04	33	150	< 2	66	0.08	60	< 10	154
171039	3202 205	0.93	0.20	0.08	225	12	0.04	49	120	50	31	0.06	64	< 10	1115
171040	3202 205	0.95	0.06	0.06	285	21	0.03	16	90	440	55	0.07	80	< 10	426
171041	3202 205	0.82	< 0.01	0.08	60	19	0.03	52	140	66	63	0.06	59	< 10	1135
171042	3202 205	4.62	0.30	0.24	665	31	0.03	42	930	144	114	0.06	123	< 10	580
171043	3202 205	11.95	0.06	0.29	2590	24	0.01	9	990	8	64	0.01	52	< 10	138
171044	3202 205	1.53	0.67	0.20	325	20	0.04	33	140	590	15	0.08	102	< 10	2130
171045	3202 205	1.34	0.41	0.14	265	4	0.03	85	240	4	57	0.06	79	< 10	234
171046	3202 205	0.97	0.43	0.17	105	1	0.02	32	60	< 2	55	0.05	68	< 10	80
171047	3202 205	1.07	0.54	0.22	95	2	0.03	39	80	< 2	68	0.06	75	< 10	62
171048	3202 205	1.08	0.54	0.22	180	4	0.02	46	290	< 2	185	0.06	84	< 10	84
171049	3202 205	19.85	0.35	1.91	>10000	7	0.05	37	390	< 2	477	0.02	22	< 10	84
171050	3202 205	0.99	0.86	0.28	115	6	0.06	30	470	< 2	219	0.08	81	< 10	42
171051	3202 205	1.08	0.23	0.24	90	4	0.06	51	140	< 2	248	0.08	75	< 10	46
171052	3202 205	0.93	0.83	0.27	145	3	0.04	55	80	10	64	0.08	83	< 10	212
171053	3202 205	2.63	1.24	0.37	390	3	0.05	17	180	< 2	29	0.16	102	< 10	24
171054	3202 205	3.25	1.40	0.41	345	2	0.06	14	210	< 2	20	0.18	118	< 10	24
171055	3202 205	3.76	1.62	0.43	225	3	0.06	15	240	< 2	32	0.18	97	< 10	22
171056	3202 205	2.45	0.68	0.32	815	58	0.02	50	280	10	308	0.15	84	< 10	260
171057	3202 205	3.06	1.65	0.45	255	1	0.06	13	250	< 2	23	0.19	104	< 10	26
171058	3202 205	4.24	1.43	0.52	630	25	0.06	34	290	< 2	123	0.18	106	< 10	34

CERTIFICATION: Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 2-A
Total 3
Certificate Date: 20-AUG-96
Invoice No. : 19626876
P.O. Number :
Account : GP W

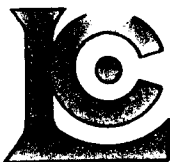
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9626876

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171059	3202 205	< 5	1	0.4	100	< 0.2	3.90	380	2.5	< 2	0.53	< 0.5	5	118	53
171060	3202 205	< 5	1	0.4	60	< 0.2	3.12	1270	3.0	< 2	0.20	< 0.5	6	100	47
171061	3202 205	< 5	1	0.2	< 10	< 0.2	0.28	8630	1.5	< 2	0.57	< 0.5	3	170	2
171062	3202 205	< 5	1	0.2	10	< 0.2	1.00	330	< 0.5	< 2	2.51	< 0.5	< 1	126	4
171063	3202 205	< 5	1	0.2	10	< 0.2	0.52	1680	1.5	< 2	4.25	< 0.5	1	117	25
171064	3202 205	< 5	1	0.4	110	< 0.2	3.47	1170	6.5	< 2	0.40	< 0.5	5	120	43
171065	3202 205	5	2	1.2	620	< 0.2	2.28	110	2.5	< 2	0.32	0.5	5	117	51
171066	3202 205	< 5	2	2.6	80	< 0.2	2.13	140	2.5	< 2	1.17	< 0.5	4	124	52
171067	3202 205	< 5	1	1.8	80	0.4	2.28	140	2.5	< 2	0.24	< 0.5	6	113	60
171068	3202 205	10	14	3.8	110	0.2	1.41	50	1.5	< 2	0.07	0.5	5	115	53
171069	3202 205	10	8	2.6	80	0.2	1.46	60	1.5	< 2	0.06	< 0.5	5	119	47
171070	3202 205	10	10	2.6	110	< 0.2	2.19	70	2.5	< 2	0.05	0.5	5	114	67
171071	3202 205	< 5	2	5.0	160	< 0.2	3.01	220	3.5	< 2	0.25	< 0.5	8	121	116
171072	3202 205	< 5	1	3.6	90	< 0.2	2.68	560	3.5	< 2	0.16	< 0.5	10	124	113
171073	3202 205	< 5	2	1.8	50	< 0.2	3.70	870	4.0	< 2	2.43	< 0.5	7	108	76
171074	3202 205	< 5	4	2.6	30	< 0.2	3.28	490	3.5	< 2	0.20	< 0.5	7	119	104
171075	3202 205	< 5	2	0.4	30	< 0.2	3.84	1080	4.0	2	2.17	< 0.5	6	104	82
171076	3202 205	< 5	2	0.8	180	< 0.2	3.38	830	4.0	< 2	0.45	0.5	9	132	85
171077	3202 205	< 5	2	2.4	700	< 0.2	3.39	210	4.5	< 2	0.82	1.5	9	108	76
171078	3202 205	< 5	1	4.2	730	1.2	5.02	350	7.0	< 2	0.40	3.0	13	129	156
171079	3202 205	20	1	2.6	310	< 0.2	3.83	110	5.5	< 2	0.34	< 0.5	18	120	98
171080	3202 205	10	6	1.6	1290	< 0.2	3.83	200	4.5	< 2	0.32	9.5	19	121	98
171081	3202 205	< 5	6	1.2	30	< 0.2	4.42	1310	5.0	< 2	0.20	< 0.5	16	117	49
171082	3202 205	< 5	2	1.2	120	< 0.2	4.19	970	5.0	< 2	0.13	1.5	12	106	64
171083	3202 205	10	2	5.0	2130	0.2	5.32	220	6.0	< 2	2.48	50.0	19	137	223
171084	3202 205	10	12	6.0	1200	< 0.2	6.90	240	7.5	< 2	5.15	27.5	14	151	144
171085	3202 205	10	2	2.4	240	< 0.2	7.94	170	6.5	< 2	3.19	6.0	9	75	94
171086	3202 205	10	6	1.8	670	< 0.2	5.84	220	4.5	< 2	4.05	18.5	10	119	69
171087	3202 205	5	8	2.0	300	< 0.2	4.32	220	3.5	< 2	2.25	9.0	12	160	102
171088	3202 205	< 5	1	0.6	100	< 0.2	8.97	1360	6.0	< 2	2.30	2.5	12	82	86
171089	3202 205	< 5	2	0.8	20	< 0.2	3.74	250	2.0	< 2	1.22	< 0.5	7	158	55
171090	3202 205	< 5	4	0.8	140	< 0.2	4.86	440	2.5	< 2	1.89	6.0	8	199	81
171091	3202 205	10	26	2.0	90	0.4	7.49	70	4.5	< 2	1.81	5.5	54	86	163
171092	3202 205	< 5	8	0.6	30	< 0.2	6.28	510	3.0	< 2	0.99	0.5	1	76	5
171093	3202 205	5	8	1.2	220	< 0.2	4.09	240	2.5	< 2	1.43	4.5	6	179	55
171094	3202 205	200	10	1.8	2750	0.8	7.91	260	4.0	< 2	6.76	33.5	24	55	54
171095	3202 205	25	24	1.0	110	< 0.2	3.62	180	2.0	< 2	0.67	3.5	8	200	45
171096	3202 205	10	56	0.8	130	0.4	7.91	170	4.5	< 2	3.48	4.0	16	121	163
171097	3202 205	20	266	3.4	150	< 0.2	6.68	80	2.0	< 2	0.20	0.5	4	74	24
171098	3202 205	15	64	11.5	1160	1.0	3.21	70	1.5	< 2	1.58	13.0	1	167	19

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 2-B
Total 3
Certificate Date: 20-AUG-96
Invoice No. : I9626876
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9626876

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171059	3202 205	2.62	1.49	0.46	290	11	0.07	24	320	4	188	0.18	103	< 10	190
171060	3202 205	1.18	1.43	0.35	120	6	0.08	23	150	4	165	0.14	81	< 10	188
171061	3202 205	0.46	0.05	0.01	60	1	0.01	5	100	< 2	92	< 0.01	4	< 10	2
171062	3202 205	16.35	0.22	0.16	525	17	0.04	4	1570	< 2	496	0.04	89	< 10	16
171063	3202 205	1.25	0.10	0.06	480	1	0.02	1	220	< 2	489	0.02	10	< 10	6
171064	3202 205	2.19	1.33	0.39	200	5	0.08	17	240	12	205	0.15	109	< 10	234
171065	3202 205	2.09	0.88	0.26	130	2	0.05	43	130	96	36	0.08	93	< 10	1705
171066	3202 205	1.51	1.06	0.28	345	< 1	0.02	34	170	116	59	0.08	115	< 10	408
171067	3202 205	1.54	1.11	0.28	355	3	0.06	47	140	260	14	0.09	119	< 10	368
171068	3202 205	2.69	0.65	0.13	105	2	0.03	48	220	110	5	0.05	92	< 10	982
171069	3202 205	2.17	0.66	0.14	110	5	0.03	38	120	118	4	0.05	86	< 10	540
171070	3202 205	2.63	0.95	0.20	130	1	0.05	36	150	40	4	0.07	117	< 10	770
171071	3202 205	1.84	1.34	0.32	225	3	0.07	34	480	108	12	0.09	142	< 10	536
171072	3202 205	1.74	1.21	0.30	255	2	0.06	34	290	116	11	0.09	137	< 10	320
171073	3202 205	2.03	1.88	0.61	710	1	0.05	26	1600	74	77	0.13	151	< 10	292
171074	3202 205	1.45	1.51	0.34	175	< 1	0.08	22	410	66	12	0.12	155	< 10	60
171075	3202 205	1.32	1.94	0.67	445	< 1	0.05	17	490	22	44	0.15	144	< 10	46
171076	3202 205	2.66	1.52	0.42	675	< 1	0.07	51	260	132	19	0.12	171	< 10	1135
171077	3202 205	2.25	1.64	0.47	730	1	0.08	45	290	440	27	0.12	164	< 10	2960
171078	3202 205	3.88	2.13	0.61	760	3	0.11	66	1640	1880	29	0.14	265	< 10	4410
171079	3202 205	3.30	1.84	0.50	725	< 1	0.09	54	710	136	22	0.12	197	< 10	972
171080	3202 205	2.45	1.82	0.45	2470	< 1	0.08	40	410	408	17	0.14	202	< 10	4230
171081	3202 205	1.97	2.13	0.48	750	2	0.09	43	290	44	15	0.17	149	< 10	106
171082	3202 205	2.05	1.99	0.47	785	1	0.08	45	260	410	12	0.16	134	< 10	566
171083	3202 205	3.97	2.21	0.79	1525	< 1	0.09	70	590	700	115	0.16	255	< 10	>10000
171084	3202 205	3.84	3.05	1.88	1830	1	0.14	53	610	856	189	0.27	238	10	6140
171085	3202 205	3.52	3.50	1.23	685	8	0.16	27	550	250	147	0.30	81	< 10	1485
171086	3202 205	3.09	2.25	0.82	1180	7	0.09	38	1210	350	229	0.35	164	< 10	3890
171087	3202 205	2.83	1.90	0.81	720	5	0.07	46	710	284	90	0.35	130	< 10	1505
171088	3202 205	3.97	3.98	1.06	530	4	0.16	22	1510	100	157	0.53	136	< 10	492
171089	3202 205	2.17	1.87	0.76	420	5	0.06	43	450	10	70	0.18	108	< 10	112
171090	3202 205	2.42	2.37	0.86	635	3	0.09	43	640	92	86	0.24	132	< 10	988
171091	3202 205	6.09	3.85	0.64	965	3	0.17	111	2800	36	68	1.05	344	< 10	676
171092	3202 205	1.37	3.25	0.75	165	< 1	0.11	7	190	18	47	0.12	8	< 10	82
171093	3202 205	1.73	2.15	0.57	455	6	0.06	53	550	98	75	0.16	147	< 10	724
171094	3202 205	3.80	3.97	0.48	1335	3	0.17	38	3080	460	385	1.36	260	10	5620
171095	3202 205	1.82	1.85	0.43	225	4	0.07	48	230	50	34	0.12	144	< 10	468
171096	3202 205	3.82	4.26	1.25	705	2	0.16	37	1500	66	284	0.45	67	< 10	622
171097	3202 205	5.29	2.52	0.54	45	6	0.14	17	860	42	26	0.18	157	< 10	86
171098	3202 205	3.77	0.94	0.16	170	11	0.05	35	1230	54	76	0.06	322	< 10	592

CERTIFICATION: *Kurt Bichler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page : 3-A
 Total : 3
 Certificate Date: 20-AUG-96
 Invoice No. : I9626876
 P.O. Number :
 Account : GPW

CERTIFICATE OF ANALYSIS A9626876

SAMPLE	PREP CODE		Au ppb	As ppm	Sb ppm	Hg ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
	FA	AA	FA+AA	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
171099	3202	205	20	46	11.5	2420	1.8	11.45	170	5.5	< 2	0.69	6.0	5	59	18
171100	3202	205	15	68	18.0	3020	2.4	3.09	70	1.5	< 2	0.65	38.0	2	127	34
171101	3202	205	10	64	15.0	2080	2.4	1.27	90	1.5	< 2	0.48	29.5	3	214	29
171102	3202	205	10	48	17.5	1630	1.8	3.63	50	1.5	< 2	1.21	8.5	2	158	20
171103	3202	205	< 5	10	4.4	180	0.4	7.56	100	2.5	< 2	1.73	< 0.5	4	52	7
171104	3202	205	< 5	4	2.6	140	< 0.2	7.64	100	2.0	< 2	0.81	< 0.5	4	52	5
171105	3202	205	< 5	1	1.6	100	< 0.2	7.45	130	2.0	< 2	0.69	< 0.5	4	55	5
171106	3202	205	< 5	1	1.2	50	< 0.2	7.45	1060	2.0	< 2	0.83	< 0.5	3	37	4
171107	3202	205	< 5	1	1.4	80	< 0.2	7.82	140	2.5	< 2	0.23	< 0.5	4	40	5
171108	3202	205	< 5	1	2.0	110	< 0.2	8.84	100	2.5	< 2	0.59	< 0.5	4	57	7
171109	3202	205	< 5	1	1.2	60	< 0.2	8.30	200	2.5	< 2	0.39	< 0.5	4	33	5

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 3-B
 Total F : 3
 Certificate Date: 20-AUG-96
 Invoice No. : 19626876
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9626876

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171099	3202 205	4.84	3.52	0.73	115	14	0.79	21	1260	70	125	0.16	340	< 10	484
171100	3202 205	3.64	0.88	0.12	80	41	0.08	42	320	116	22	0.05	684	< 10	2490
171101	3202 205	2.20	0.58	0.05	35	26	0.01	59	1540	104	31	0.04	650	< 10	1675
171102	3202 205	3.62	1.20	0.22	125	10	0.09	38	2910	80	81	0.07	342	< 10	684
171103	3202 205	4.88	3.29	0.64	110	1	0.47	7	580	34	83	0.20	35	< 10	32
171104	3202 205	3.60	3.86	0.74	50	1	0.18	6	640	16	45	0.21	16	< 10	40
171105	3202 205	2.60	3.53	0.74	50	1	0.57	4	640	16	42	0.21	16	< 10	36
171106	3202 205	1.74	3.45	0.68	60	2	1.12	7	640	18	73	0.21	15	< 10	40
171107	3202 205	2.16	4.04	0.75	30	3	0.44	7	640	16	23	0.24	16	< 10	42
171108	3202 205	3.01	4.26	0.81	55	2	1.08	6	710	26	62	0.25	18	< 10	42
171109	3202 205	1.93	3.91	0.75	35	4	1.17	6	650	16	52	0.24	17	< 10	46

CERTIFICATION: Hart Buchler



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PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 6 8 7 7**

BILLING INFORMATION

Date: 16-AUG-96
 Project: WOLVERINE
 P.O. No.:
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9626877

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
25	3202 - Rock - save entire reject	0.50		
	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	906.25
Total Cost \$				906.25
Client Discount (25%) \$				<u>-226.56</u>
Net Cost \$				679.69
(Reg# R100938885) GST \$				<u>47.58</u>
TOTAL PAYABLE (CDN) \$				727.27



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P 1-A
Tot Q 1
Date: 15-AUG-96
Invoice #: 19626877
P.O. #: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9626877

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G90-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	6.73 7.07	760 766	1.5 0.9	4 5	2.08 2.12	0.5 0.9	17 19	136 141	212 221
GEO-90 CHEMEX MEAN	Std1	1	----	62 61	8.2 7.7	240 189	2.6 3.0	----	----	----	----	----	----	----	----	----
WC-96 CHEMEX MEAN	Std1	1	230 239	----	----	----	----	----	----	----	----	----	----	----	----	----
105096	Dupl-01 Origl-01	01 01	10 15	1 1	2.0 1.8	50 60	< 0.2 < 0.2	1.87 1.86	750 580	< 0.5 < 0.5	< 2 < 2	0.26 0.26	< 0.5 < 0.5	5 5	97 92	48 49

CERTIFICATION: Stuart Buchler

*Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P: 1-B
Tot Qc: 1
Date: 15-AUG-96
Invoice #: 19626877
P.O. #: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9626877

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G90-TOT CHEMEX MEAN	Std1	1	3.82	1.59	0.97	935	8	1.68	73	1020	-----	305	0.33	98	< 10	234
	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	-----	320	0.34	103	< 10	246
GEO-90 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	190	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	195	-----	-----	-----	-----	-----
WC-96 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105096	Dupl	-01	6.66	0.14	0.43	3490	7	0.01	26	370	< 2	55	0.10	83	< 10	46
	Orig	-01	6.62	0.15	0.43	3510	6	0.02	27	390	< 2	54	0.10	83	< 10	46

CERTIFICATION:

Howitzschler

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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A9626877

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9626877

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 15-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
3202	25	Rock - save entire reject
205	25	Geochem ring to approx 150 mesh
294	25	4-7 Kg crush and split
285	25	ICP - HF digestion charge
287	25	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	25	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	25	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	25	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	25	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	25	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	25	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	25	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	25	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	25	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	25	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	25	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	25	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	25	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	25	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	25	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	25	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	25	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	25	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	25	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	25	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	25	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	25	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	25	Pb ppm: 24 element, rock & core	AAS	2	10000
582	25	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	25	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	25	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	25	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	25	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
Total: 1
Certificate Date: 15-AUG-96
Invoice No.: 19626877
P.O. Number:
Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626877

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105096	3202 205	15	1	1.8	60	< 0.2	1.86	580	< 0.5	< 2	0.26	< 0.5	5	92	49
105097	3202 205	15	8	1.8	240	0.2	2.71	550	< 0.5	< 2	1.59	< 0.5	8	91	52
105098	3202 205	10	1	1.4	90	0.2	1.19	350	< 0.5	< 2	0.17	< 0.5	< 1	80	20
105099	3202 205	15	10	3.4	240	< 0.2	1.09	690	< 0.5	< 2	0.61	< 0.5	1	177	34
105100	3202 205	10	1	3.6	280	< 0.2	1.20	700	1.5	< 2	0.12	< 0.5	3	337	49
105145	3202 205	15	14	1.0	10	< 0.2	5.72	1340	0.5	< 2	5.40	< 0.5	40	2880	91
105146	3202 205	5	1	0.8	30	< 0.2	3.32	2000	< 0.5	< 2	1.24	< 0.5	6	140	56
105147	3202 205	5	1	0.4	80	< 0.2	4.04	7970	3.5	< 2	0.92	< 0.5	8	202	68
105148	3202 205	< 5	2	0.2	20	< 0.2	1.17	3270	2.0	< 2	0.56	< 0.5	< 1	171	18
105149	3202 205	5	1	1.0	40	< 0.2	1.21	570	0.5	< 2	1.30	< 0.5	< 1	143	24
105150	3202 205	< 5	2	0.8	3970	< 0.2	0.94	770	3.5	6	18.90	1.5	5	94	30
105151	3202 205	< 5	1	0.8	20	< 0.2	1.19	1100	2.0	6	1.36	< 0.5	1	286	12
105152	3202 205	15	1	0.4	50	< 0.2	1.95	2720	2.0	< 2	0.28	< 0.5	3	113	53
105153	3202 205	< 5	1	1.0	80	< 0.2	1.53	2820	1.0	4	1.21	< 0.5	4	227	53
105154	3202 205	< 5	2	4.2	160	< 0.2	1.35	2080	1.5	< 2	0.16	< 0.5	4	223	54
105155	3202 205	265	1	1.2	30	< 0.2	1.30	960	2.5	< 2	1.68	< 0.5	< 1	214	33
105156	3202 205	45	1	1.2	30	< 0.2	1.26	1400	2.0	< 2	1.87	< 0.5	< 1	151	36
105157	3202 205	15	2	1.4	60	< 0.2	2.51	650	1.5	< 2	2.06	< 0.5	3	229	47
105158	3202 205	5	1	3.2	30	0.8	1.64	710	< 0.5	< 2	0.98	< 0.5	2	191	62
105201	3202 205	10	1	4.2	210	0.2	1.27	250	0.5	< 2	0.65	< 0.5	< 1	222	16
105202	3202 205	5	1	2.8	40	< 0.2	1.14	440	1.5	< 2	0.36	< 0.5	1	420	28
105203	3202 205	90	1	3.8	110	< 0.2	1.06	180	3.5	< 2	0.84	< 0.5	< 1	201	29
105204	3202 205	5	2	2.8	240	< 0.2	2.07	970	3.5	< 2	0.09	< 0.5	4	193	59
105205	3202 205	< 5	1	1.4	140	< 0.2	3.24	960	3.0	2	0.22	< 0.5	5	223	50
105206	3202 205	< 5	1	1.8	10	< 0.2	1.59	9410	< 0.5	8	24.4	< 0.5	7	91	24

CERTIFICATION:

Hart Buchler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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Page: 1-B
 Total: 1
 Certificate Date: 15-AUG-96
 Invoice No.: I9626877
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9626877

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105096	3202 205	6.62	0.15	0.43	3510	6	0.02	27	390	< 2	54	0.10	83	< 10	46
105097	3202 205	3.93	0.59	0.46	>10000	65	0.06	45	270	2	211	0.09	103	< 10	298
105098	3202 205	19.50	0.03	0.25	1075	11	< 0.01	6	320	< 2	51	0.06	86	< 10	22
105099	3202 205	12.95	0.03	0.30	565	13	< 0.01	27	970	20	38	0.05	71	< 10	122
105100	3202 205	2.16	0.13	0.12	115	9	0.01	24	390	18	21	0.07	74	< 10	330
105145	3202 205	5.20	0.96	8.53	1130	2	0.39	367	160	< 2	75	0.35	179	30	52
105146	3202 205	14.00	0.37	0.62	3550	17	0.11	24	1040	< 2	384	0.11	92	< 10	30
105147	3202 205	4.05	1.04	0.58	405	39	0.47	26	250	16	310	0.15	113	< 10	190
105148	3202 205	18.45	0.16	0.16	355	14	0.06	6	230	< 2	333	0.06	92	< 10	26
105149	3202 205	23.7	0.09	0.32	1315	15	0.01	19	330	< 2	121	0.09	114	< 10	82
105150	3202 205	2.66	0.35	0.48	2670	12	0.05	33	560	280	873	0.03	66	< 10	4630
105151	3202 205	5.19	0.22	0.23	825	5	0.01	7	910	< 2	182	0.06	128	< 10	22
105152	3202 205	1.02	0.73	0.23	210	5	0.07	24	140	4	188	0.07	106	< 10	80
105153	3202 205	0.90	0.59	0.18	300	2	0.04	22	710	8	270	0.05	80	< 10	204
105154	3202 205	0.74	0.48	0.17	75	5	0.05	28	110	8	148	0.04	80	< 10	160
105155	3202 205	12.55	0.33	0.30	850	16	0.01	8	4420	< 2	277	0.05	87	< 10	18
105156	3202 205	16.15	0.20	0.27	1115	15	0.01	5	2360	< 2	314	0.05	90	< 10	16
105157	3202 205	6.20	0.08	0.52	435	8	0.01	9	3580	< 2	321	0.10	56	< 10	60
105158	3202 205	3.99	0.19	0.45	700	4	0.01	21	250	< 2	122	0.08	55	< 10	18
105201	3202 205	13.65	0.07	0.31	470	10	< 0.01	9	2550	< 2	126	0.07	105	< 10	12
105202	3202 205	3.58	0.12	0.37	420	1	< 0.01	11	40	< 2	40	0.07	74	< 10	32
105203	3202 205	12.40	0.12	0.32	4140	19	< 0.01	9	3230	< 2	146	0.04	81	< 10	16
105204	3202 205	1.84	0.51	0.23	130	8	0.03	25	170	50	20	0.09	101	< 10	240
105205	3202 205	1.77	1.09	0.33	65	4	0.06	22	130	28	42	0.13	98	< 10	730
105206	3202 205	1.24	0.30	0.33	2150	< 1	0.10	22	420	6	1595	0.06	44	< 10	16

CERTIFICATION: H. Buehler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot Q: 1
 Date: 20-AUG-96
 Invoice #: 19627647
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9627647

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	Zn %	Ba (XRF) Spec Gr ppm S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	0.007 0.008	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	0.68 0.67	3.60 3.58	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	860 865	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.55 0.62	172 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.82 0.83	0.45 0.45	0.94 0.95	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	2.56 2.62	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	3.0 4.3	5.65 5.72	300 285	< 10 < 10	< 20 < 20	3.40 3.50	< 10 < 10	380 364	280 266

CERTIFICATION: Hart Buchler



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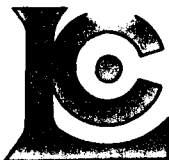
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9627647

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	std1 ---	1 ---	9520 9440	19.50 19.35	0.8 0.8	2.75 2.70	1020 961	< 10 < 10	1.45 1.38	11710 11050	0.009 0.007	230 221	0.30 0.29	120 115	220 191

CERTIFICATION: H. B. B. B.



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A9627647

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9627647**

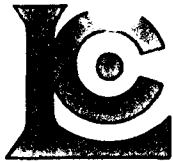
(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 20-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	9	RUSH Assay ring approx 150 mesh
295	9	RUSH crush and split (0-3 Kg)
3202	9	Rock - save entire reject
290	9	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	9	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	9	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	9	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	9	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	9	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	9	Ba ppm	XRF	10	50000
444	9	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	9	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	9	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	9	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	9	Ag ppm: high grade 24 element	AAS	0.5	200
4031	9	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	9	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	9	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	9	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	9	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	9	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	9	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	9	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	9	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	9	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	9	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	9	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	9	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	9	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	9	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	9	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	9	Pb %: high grade 24 element	AAS	0.001	10.00
4047	9	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	9	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	9	V ppm: A22 ICP package	ICP-AES	10	50000
4050	9	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page : 1-A
 Total : 1
 Certificate Date: 20-AUG-96
 Invoice No. : 19627647
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9627647

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH	FA							AAS									
105371	258	295	7.58	1271	0.36	4.83	31.1	260	4.20	0.20	0.09	0.011	>200	0.25	100	< 10	< 20	0.95	2850	30	80
105372	258	295	6.27	1745	0.36	6.15	10.70	790	4.46	0.36	0.24	0.003	>200	0.40	100	< 10	< 20	0.60	600	< 10	100
105373	258	295	4.70	1239	0.11	6.28	16.00	5450	4.14	0.23	0.13	0.003	>200	2.30	100	< 10	< 20	1.35	1080	< 10	80
105374	258	295	0.07	21	0.11	0.13	2.63	10290	3.00	0.01	< 0.01	< 0.001	23.0	5.90	600	< 10	20	7.25	260	< 10	90
105375	258	295	0.17	5	0.04	0.03	0.05	845	3.99	0.03	< 0.01	< 0.001	5.0	1.15	100	< 10	< 20	3.15	< 10	10	130
105376	258	295	0.07	< 3	0.03	0.02	0.24	1580	3.06	0.01	< 0.01	< 0.001	1.0	1.55	100	< 10	< 20	16.25	30	< 10	80
105377	258	295	0.10	23	1.25	0.06	0.53	8840	3.06	< 0.01	< 0.01	< 0.001	25.0	6.25	400	< 10	160	5.45	40	60	70
105378	258	295	< 0.07	19	1.54	0.02	0.07	4250	2.97	< 0.01	< 0.01	< 0.001	23.0	5.65	400	< 10	60	2.90	< 10	60	70
105379	258	295	< 0.07	< 3	0.03	0.02	0.03	4970	2.81	< 0.01	< 0.01	< 0.001	5.0	4.30	600	< 10	< 20	3.85	< 10	< 10	120

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page : 1-B
 Total : 1
 Certificate Date: 20-AUG-96
 Invoice No. : 19627647
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9627647

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105371	258	295	3070	20.8	< 0.1	0.05	570	60	< 0.05	60	5.03	< 10	< 0.05	50	>100000
105372	258	295	3580	>30.0	< 0.1	0.10	500	90	< 0.05	90	6.02	10	< 0.05	90	94700
105373	258	295	960	24.6	0.9	0.30	720	10	0.05	30	6.14	30	< 0.05	80	>100000
105374	258	295	1100	8.70	2.6	4.30	2370	30	0.20	40	0.111	200	0.10	420	26400
105375	258	295	350	>30.0	0.4	1.40	1280	< 10	0.05	50	0.027	70	< 0.05	50	700
105376	258	295	340	12.80	0.6	0.80	2960	< 10	0.05	50	0.016	380	< 0.05	70	2560
105377	258	295	12530	13.90	2.5	3.25	2330	< 10	0.25	40	0.057	160	0.05	120	5220
105378	258	295	15530	12.85	1.3	3.30	1360	10	1.35	10	0.020	110	0.05	40	920
105379	258	295	300	6.40	1.6	2.35	1170	< 10	0.40	10	0.022	120	0.05	20	360

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 7 6 7 7**

BILLING INFORMATION

Date: 26-AUG-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9627677

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
59	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	2056.15
				Total Cost \$ 2056.15
				Client Discount (25%) \$ -514.04
				Net Cost \$ 1542.11
				(Reg# R100938885) GST \$ 107.95
				TOTAL PAYABLE (CDN) \$ 1650.06



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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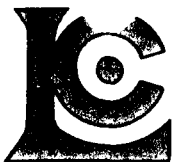
QC P: 1-A
 Tot Q: 1
 Date: 23-AUG-96
 Invoice #: 19627677
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9627677

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	85 81	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93 CHEMEX MEAN	Std1	2	940 904	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	----	----	----	----	----	6.72	760	1.5	6	2.06	0.5	18	136	213
G90-TOT	Std2	1	----	----	----	----	----	6.70	780	2.0	8	2.14	1.0	19	138	217
G90-TOT	Std1	2	----	----	----	----	----	6.75	750	1.5	4	2.06	0.5	17	134	208
CHEMEX MEAN	----	----	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	Std1	1	----	60	7.6	180	2.8	----	----	----	----	----	----	----	----	----
GEO-90	Std2	1	----	68	8.0	210	2.8	----	----	----	----	----	----	----	----	----
GEO-90	Std1	2	----	64	7.6	190	2.8	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	Std2	1	330 334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10 19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	2	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	0.31 0.24	30 13	< 0.5 < 0.5	< 2 < 2	0.03 0.01	< 0.5 < 0.5	< 1 < 1	3 5	1 2
171154	Dup1-01		10	2	1.2	170	< 0.2	2.35	7070	0.5	6	< 0.01	< 0.5	4	90	43
	Orig1-01		10	1	1.2	210	< 0.2	2.35	6990	0.5	2	0.02	< 0.5	4	85	44
171194	Dup2-01		< 5	2	0.4	10	< 0.2	3.51	1210	0.5	2	1.03	< 0.5	9	163	71
	Orig2-01		< 5	2	0.4	10	< 0.2	3.34	1110	0.5	< 2	1.00	< 0.5	9	128	68

CERTIFICATION: Hart Buchler



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PROJECT: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P
 Tot Q
 Date: 1
 Invoice #: 23-AUG-96
 P.O. #: 19627677
 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9627677

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSB-93 CHEMEX MEAN	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.78	1.78	0.98	1030	8	1.73	76	1100	----	309	0.33	101	< 10	234
G90-TOT	Std2	1	3.90	1.85	1.00	1065	8	1.79	76	1130	----	315	0.34	104	< 10	242
G90-TOT	Std1	2	3.78	1.77	0.97	975	7	1.76	74	1060	----	307	0.33	99	< 10	228
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	204	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	204	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	210	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94 CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.07	0.06	0.01	5	< 1	0.02	< 1	150	----	137	0.01	3	< 10	< 2
	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
171154	Dup1-01		1.19	0.94	0.22	90	1	0.03	17	150	20	10	0.11	113	< 10	40
	Orig1-01		1.19	0.92	0.23	90	1	0.04	18	160	20	11	0.12	111	< 10	42
171194	Dup2-01		1.94	1.42	0.93	1035	3	0.05	39	430	< 2	129	0.18	85	< 10	82
	Orig2-01		1.85	1.38	0.89	1030	3	0.05	38	420	< 2	126	0.18	83	< 10	78

CERTIFICATION: *Hart Buchler*



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9627677

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9627677

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 23-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	59	Geochem ring to approx 150 mesh
226	59	0-3 Kg crush and split
3202	59	Rock - save entire reject
285	59	ICP - HF digestion charge
287	59	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	59	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	59	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	59	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	59	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	59	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	59	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	59	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	59	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	59	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	59	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	59	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	59	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	59	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	59	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	59	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	59	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	59	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	59	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	59	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	59	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	59	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	59	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	59	Pb ppm: 24 element, rock & core	AAS	2	10000
582	59	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	59	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	59	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	59	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	59	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
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 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

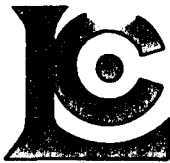
Page 1 of 1-A
 Total 2
 Certificate Date: 23-AUG-96
 Invoice No. : 19627677
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9627677

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171154	205 226	10	1	1.2	210	< 0.2	2.35	6990	0.5	2	0.02	< 0.5	4	85	44
171155	205 226	< 5	2	1.4	60	< 0.2	3.52	5810	0.5	< 2	0.01	< 0.5	8	123	80
171156	205 226	< 5	2	0.8	40	< 0.2	3.75	5840	1.0	2	0.03	< 0.5	12	148	96
171157	205 226	< 5	1	0.8	20	< 0.2	3.62	4120	1.0	6	0.11	< 0.5	10	136	86
171158	205 226	< 5	32	0.8	10	< 0.2	7.38	3900	< 0.5	< 2	1.62	0.5	37	155	55
171159	205 226	< 5	2	1.0	10	< 0.2	3.64	2870	1.0	< 2	0.21	< 0.5	15	111	82
171160	205 226	< 5	20	1.0	10	< 0.2	6.12	2360	< 0.5	< 2	0.68	< 0.5	28	143	66
171161	205 226	< 5	2	0.8	10	< 0.2	4.80	2770	0.5	< 2	0.33	< 0.5	20	137	67
171162	205 226	35	14	1.2	< 10	< 0.2	2.51	2100	< 0.5	2	0.75	< 0.5	30	85	118
171163	205 226	< 5	2	0.8	10	< 0.2	3.34	3390	1.0	< 2	0.08	< 0.5	10	130	76
171164	205 226	< 5	4	1.0	10	< 0.2	3.53	3500	1.0	< 2	0.13	< 0.5	10	107	79
171165	205 226	< 5	1	1.6	50	< 0.2	4.15	350	2.0	4	0.64	1.5	16	172	94
171166	205 226	< 5	1	1.2	70	< 0.2	3.54	210	2.0	< 2	0.13	0.5	7	170	107
171167	205 226	< 5	2	1.0	60	< 0.2	3.23	310	2.0	< 2	0.14	0.5	9	126	77
171168	205 226	< 5	1	1.2	50	< 0.2	3.70	300	1.5	4	0.42	0.5	12	117	120
171169	205 226	< 5	2	1.2	10	< 0.2	3.81	5000	1.0	< 2	0.19	< 0.5	12	124	63
171170	205 226	< 5	2	1.0	70	< 0.2	3.25	260	1.0	< 2	0.34	0.5	14	137	102
171171	205 226	< 5	4	1.2	30	< 0.2	6.36	520	1.5	< 2	1.73	< 0.5	28	169	100
171172	205 226	< 5	40	0.8	10	< 0.2	7.87	6580	1.5	< 2	1.63	0.5	40	171	56
171173	205 226	< 5	2	1.6	30	< 0.2	4.23	2540	1.5	< 2	0.51	0.5	11	125	80
171174	205 226	< 5	1	1.0	< 10	< 0.2	3.75	1470	1.5	< 2	1.84	0.5	8	120	64
171175	205 226	< 5	24	1.0	10	< 0.2	7.15	2700	1.5	< 2	1.84	0.5	25	138	49
171176	205 226	505	10	1.4	< 10	< 0.2	1.59	200	< 0.5	< 2	4.00	< 0.5	30	85	163
171177	205 226	< 5	20	0.8	< 10	< 0.2	7.10	2130	0.5	< 2	3.55	0.5	30	107	68
171178	205 226	< 5	1	2.2	40	< 0.2	3.16	740	0.5	2	1.56	0.5	9	134	53
171179	205 226	< 5	2	1.2	10	< 0.2	3.47	3530	0.5	2	0.45	< 0.5	11	120	66
171180	205 226	< 5	2	1.0	10	< 0.2	3.48	1480	0.5	6	0.97	< 0.5	9	111	79
171181	205 226	< 5	1	1.0	< 10	< 0.2	3.43	3730	0.5	6	0.81	< 0.5	9	176	53
171182	205 226	< 5	1	1.0	10	< 0.2	0.93	1910	< 0.5	< 2	2.32	< 0.5	6	155	10
171183	205 226	< 5	1	1.2	30	< 0.2	2.27	920	0.5	< 2	0.12	< 0.5	5	159	68
171184	205 226	< 5	2	1.0	10	< 0.2	3.27	1330	0.5	< 2	0.37	< 0.5	8	176	58
171185	205 226	< 5	2	1.0	60	< 0.2	3.19	700	1.0	< 2	0.49	< 0.5	8	127	84
171186	205 226	< 5	54	1.0	30	< 0.2	7.69	5860	1.5	< 2	2.95	< 0.5	38	191	29
171187	205 226	< 5	1	1.2	30	< 0.2	3.10	860	0.5	< 2	0.74	< 0.5	9	162	65
171188	205 226	< 5	2	1.2	60	< 0.2	2.38	1360	0.5	2	3.34	< 0.5	8	192	36
171189	205 226	5	1	1.2	100	< 0.2	3.67	310	1.5	< 2	1.14	0.5	11	171	72
171190	205 226	5	2	1.2	80	< 0.2	3.78	220	2.0	< 2	1.19	< 0.5	12	133	81
171191	205 226	< 5	1	1.5	40	< 0.2	4.10	430	1.5	< 2	1.39	< 0.5	8	148	54
171192	205 226	< 5	34	1.0	30	< 0.2	6.95	2490	0.5	< 2	4.96	< 0.5	33	158	45
171193	205 226	< 5	8	0.8	20	< 0.2	3.78	2950	1.0	< 2	1.05	< 0.5	15	123	81

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-B
 Total : 2
 Certificate Date: 23-AUG-96
 Invoice No. : I9627677
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9627677

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171154	205 226	1.19	0.92	0.23	90	1	0.04	18	160	20	11	0.12	111	< 10	42
171155	205 226	2.41	1.53	0.36	240	2	0.05	32	310	20	13	0.20	77	< 10	88
171156	205 226	2.03	1.55	0.56	1090	1	0.05	47	260	32	10	0.19	82	< 10	146
171157	205 226	2.06	1.32	0.74	640	1	0.04	42	400	10	15	0.18	85	< 10	134
171158	205 226	9.28	0.77	3.37	1955	3	1.13	55	1480	< 2	116	1.08	326	< 10	174
171159	205 226	2.62	1.05	0.84	950	1	0.05	56	560	8	21	0.24	111	< 10	110
171160	205 226	7.00	0.71	2.40	2530	2	0.56	73	1550	18	55	0.73	264	< 10	112
171161	205 226	5.09	0.98	1.91	3090	1	0.08	58	920	18	35	0.45	201	< 10	92
171162	205 226	5.08	0.39	0.61	7050	2	0.01	91	1840	30	86	0.32	183	< 10	82
171163	205 226	1.88	1.38	0.75	1225	1	0.04	36	300	8	16	0.16	84	< 10	76
171164	205 226	1.82	1.51	0.62	1150	3	0.04	35	400	12	17	0.18	91	< 10	100
171165	205 226	4.45	2.02	0.52	5560	8	0.08	107	720	44	30	0.20	204	< 10	454
171166	205 226	2.95	1.50	0.39	665	6	0.07	85	570	24	15	0.12	161	< 10	138
171167	205 226	2.33	1.59	0.43	1190	3	0.06	85	360	10	11	0.11	132	< 10	94
171168	205 226	3.23	1.47	0.76	1550	4	0.06	88	700	34	29	0.17	150	< 10	200
171169	205 226	1.94	1.59	0.69	1090	1	0.06	46	350	6	19	0.19	74	< 10	120
171170	205 226	3.39	1.21	0.57	2530	2	0.06	54	840	56	31	0.18	183	< 10	220
171171	205 226	4.69	1.84	1.15	5930	2	0.11	83	1140	34	125	0.64	252	< 10	270
171172	205 226	6.99	1.98	2.67	6740	2	0.16	73	950	< 2	127	0.80	279	< 10	250
171173	205 226	2.05	1.70	0.57	4690	4	0.07	61	590	34	50	0.17	100	< 10	214
171174	205 226	2.18	1.24	0.78	2600	4	0.14	45	490	18	132	0.17	76	< 10	114
171175	205 226	6.51	0.72	1.30	3100	3	2.86	57	1700	6	173	1.12	289	< 10	110
171176	205 226	10.60	0.35	0.36	>10000	2	0.29	71	2350	< 2	392	0.22	182	< 10	64
171177	205 226	7.34	0.68	3.26	2820	< 1	1.30	47	1000	12	225	0.82	280	< 10	108
171178	205 226	1.94	1.11	0.69	855	2	0.04	31	500	20	80	0.16	75	< 10	82
171179	205 226	2.05	1.34	0.85	830	1	0.05	32	250	10	37	0.18	72	< 10	70
171180	205 226	1.91	1.50	0.93	1075	1	0.05	42	340	6	78	0.18	85	< 10	78
171181	205 226	2.18	1.11	0.85	1570	6	0.39	34	350	6	77	0.18	77	< 10	76
171182	205 226	3.24	0.15	0.33	>10000	1	0.10	15	240	< 2	336	0.06	31	< 10	40
171183	205 226	1.77	0.92	0.42	280	3	0.03	29	270	24	15	0.11	96	< 10	76
171184	205 226	2.73	1.29	0.89	1070	2	0.04	48	320	< 2	37	0.19	107	< 10	124
171185	205 226	1.65	1.51	0.54	930	7	0.04	45	330	16	45	0.14	133	< 10	108
171186	205 226	6.67	1.72	2.20	2850	3	1.88	74	1160	< 2	262	0.93	285	< 10	190
171187	205 226	1.73	1.45	0.73	1090	4	0.05	44	370	6	61	0.17	104	< 10	98
171188	205 226	1.44	1.16	0.96	1410	3	0.03	53	720	6	265	0.16	84	< 10	104
171189	205 226	2.91	1.73	0.70	2520	7	0.06	63	560	20	69	0.17	167	< 10	212
171190	205 226	3.46	1.65	0.77	2010	5	0.06	72	730	18	86	0.24	179	< 10	152
171191	205 226	2.88	1.35	0.84	2220	5	0.07	48	690	14	111	0.19	120	< 10	76
171192	205 226	7.63	0.73	3.40	2390	3	1.24	47	1000	< 2	566	0.84	276	< 10	114
171193	205 226	2.45	0.95	1.03	2350	1	0.54	42	390	12	119	0.18	81	< 10	80

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 2-A
 Total: 2
 Certificate Date: 23-AUG-96
 Invoice No.: 19627677
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9627677

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171194	205 226	< 5	2	0.4	10	< 0.2	3.34	1110	0.5	< 2	1.00	< 0.5	9	128	68
171195	205 226	< 5	6	0.4	20	< 0.2	3.83	3270	1.0	< 2	0.95	< 0.5	12	77	55
171196	205 226	< 5	2	0.4	50	< 0.2	3.87	900	1.0	< 2	0.91	< 0.5	10	142	69
171197	205 226	10	6	0.2	40	< 0.2	3.83	690	1.0	< 2	0.44	< 0.5	12	162	86
171198	205 226	< 5	6	0.4	40	< 0.2	3.49	2890	0.5	< 2	0.11	< 0.5	10	172	75
171199	205 226	< 5	2	0.2	10	< 0.2	3.36	4600	0.5	2	0.13	< 0.5	10	166	84
171200	205 226	< 5	4	0.4	30	< 0.2	3.25	3300	0.5	< 2	0.39	< 0.5	11	111	65
171201	205 226	< 5	2	0.4	40	< 0.2	3.05	3660	0.5	< 2	0.18	< 0.5	8	152	59
171202	205 226	< 5	2	1.8	50	< 0.2	3.30	4310	1.0	< 2	0.10	< 0.5	9	108	71
171203	205 226	10	4	0.4	30	< 0.2	2.88	3140	0.5	< 2	0.08	< 0.5	11	68	57
171204	205 226	< 5	12	0.4	30	< 0.2	3.92	4380	1.0	< 2	0.10	< 0.5	16	110	89
171205	205 226	< 5	2	0.8	30	< 0.2	3.23	4300	1.0	< 2	0.06	< 0.5	8	99	70
171206	205 226	10	2	0.8	60	< 0.2	3.08	340	0.5	< 2	0.06	< 0.5	6	152	82
171207	205 226	15	1	0.8	40	< 0.2	3.65	300	1.0	< 2	0.06	< 0.5	7	160	100
171208	205 226	< 5	1	0.2	20	< 0.2	3.19	550	0.5	< 2	0.14	< 0.5	8	169	81
171209	205 226	< 5	1	0.2	< 10	< 0.2	2.80	500	0.5	< 2	0.10	< 0.5	7	150	90
171210	205 226	< 5	2	0.4	50	< 0.2	3.01	470	0.5	< 2	0.19	< 0.5	7	140	76
171211	205 226	< 5	1	0.2	30	< 0.2	4.13	3120	0.5	2	0.21	< 0.5	13	132	83
171212	205 226	< 5	2	< 0.2	10	< 0.2	3.69	3310	0.5	2	0.08	< 0.5	12	129	54

CERTIFICATION:

Hart Buehler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

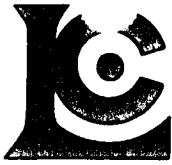
Page er :2-B
 Total :2
 Certificate Date: 23-AUG-96
 Invoice No. :19627677
 P.O. Number :6406
 Account :GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9627677

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171194	205 226	1.85	1.38	0.89	1030	3	0.05	38	420	< 2	126	0.18	83	< 10	78
171195	205 226	2.03	1.43	1.09	1370	1	0.05	36	330	4	139	0.18	73	< 10	76
171196	205 226	2.32	1.63	0.95	830	3	0.06	69	650	4	197	0.20	105	< 10	152
171197	205 226	2.27	1.48	0.95	1205	3	0.06	60	330	4	108	0.19	91	< 10	108
171198	205 226	2.24	1.32	0.85	285	5	0.03	46	420	< 2	38	0.18	87	< 10	86
171199	205 226	1.94	1.21	0.67	760	2	0.04	39	340	< 2	47	0.17	79	< 10	76
171200	205 226	1.97	0.81	0.54	1380	1	0.03	26	270	< 2	74	0.15	60	< 10	64
171201	205 226	1.58	0.98	0.45	565	1	0.04	31	260	2	65	0.16	76	< 10	64
171202	205 226	1.73	1.07	0.43	1855	1	0.04	36	330	< 2	55	0.16	84	< 10	72
171203	205 226	1.60	0.77	0.45	1170	< 1	0.02	31	280	< 2	31	0.14	60	< 10	54
171204	205 226	2.03	1.09	0.66	1425	2	0.04	34	440	16	47	0.20	89	< 10	70
171205	205 226	1.99	1.18	0.61	2010	2	0.03	27	240	4	46	0.15	95	< 10	58
171206	205 226	1.93	1.16	0.63	200	3	0.05	30	240	< 2	25	0.14	92	< 10	60
171207	205 226	2.38	1.43	0.84	275	2	0.05	35	320	4	25	0.17	107	< 10	80
171208	205 226	1.99	1.23	0.83	505	1	0.05	38	230	4	51	0.15	84	< 10	66
171209	205 226	1.67	1.11	0.70	455	1	0.03	28	220	2	40	0.13	67	< 10	52
171210	205 226	1.71	1.12	0.73	640	1	0.04	30	220	< 2	65	0.14	79	< 10	58
171211	205 226	2.49	0.97	1.07	875	5	0.49	35	370	12	60	0.19	77	< 10	68
171212	205 226	2.17	1.24	0.68	375	< 1	0.05	36	290	6	35	0.19	66	< 10	68

CERTIFICATION: John A. Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER I 9 6 2 7 6 7 8

BILLING INFORMATION

Date: 23-AUG-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9627678

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
44	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1533.40
Total Cost \$				1533.40
Client Discount (25%) \$				<u>-383.35</u>
Net Cost \$				1150.05
(Reg# R100938885) GST \$				<u>80.50</u>
TOTAL PAYABLE (CDN) \$				1230.55



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot Q: 1
 Date: 23-AUG-96
 Invoice #: I9627678
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9627678

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	std1	1	75 81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.63	760	1.5	4	2.07	1.0	18	136	217
G90-TOT	std2	1	----	----	----	----	----	7.14	820	1.5	2	2.27	1.5	20	151	231
G90-TOT	std1	2	----	----	----	----	----	7.08	790	1.5	6	2.24	0.5	19	145	221
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	62	7.8	200	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	60	7.2	210	2.8	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94 CHEMEX MEAN	std2	1	320 334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	40 19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	1 2	0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.33 0.24	30 13	< 0.5 < 0.5	< 2 < 2	0.03 0.01	< 0.5 < 0.5	< 1 < 1	2 5	3 2	
171110	Dupl-01		< 5	2	1.0	< 10	< 0.2	7.31	1220	2.5	< 2	0.68	< 0.5	4	63	7
	Origl-01		< 5	2	0.8	10	< 0.2	7.45	1230	2.5	< 2	0.67	< 0.5	4	94	7

CERTIFICATION: Hart Bickler



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 212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot Q: 1
 Date: 23-AUG-96
 Invoice #: 19627678
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9627678

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	3.77	1.73	0.97	985	8	1.74	74	1150	----	313	0.33	102	10	230
G90-TOT	Std2	1	4.08	1.86	1.04	1080	8	1.88	82	1250	----	339	0.35	109	10	260
G90-TOT	Std1	2	3.98	1.82	1.03	1060	9	1.81	77	1230	----	328	0.35	110	10	248
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	210	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94 CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2 < 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.07 0.05	0.09 0.03	0.02 < 0.01	5 20	< 1 < 1	0.03 < 0.01	< 1 < 1	160 207	----	134 178	0.01 < 0.01	4 2	< 10 < 10	2 < 2
171110	Dupl	01	1.69	3.21	0.63	55	< 1	1.69	2	580	18	96	0.22	17	< 10	40
	Orig	01	1.71	3.26	0.64	50	1	1.68	5	610	16	97	0.22	18	< 10	40

CERTIFICATION: Hart Bickler



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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9627678

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9627678**

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 23-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	44	Geochem ring to approx 150 mesh
226	44	0-3 Kg crush and split
3202	44	Rock - save entire reject
285	44	ICP - HF digestion charge
287	44	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	44	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	44	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	44	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	44	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	44	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	44	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	44	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	44	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	44	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	44	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	44	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	44	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	44	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	44	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	44	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	44	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	44	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	44	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	44	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	44	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	44	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	44	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	44	Pb ppm: 24 element, rock & core	AAS	2	10000
582	44	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	44	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	44	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	44	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	44	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

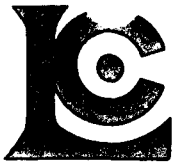
Page: 1-A
Total: 2
Certificate Date: 23-AUG-96
Invoice No.: I9627678
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9627678

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171110	205 226	< 5	2	0.8	10	< 0.2	7.45	1230	2.5	< 2	0.67	< 0.5	4	94	7
171111	205 226	< 5	2	0.6	20	< 0.2	8.28	1340	2.5	< 2	0.42	< 0.5	5	79	7
171112	205 226	< 5	1	1.0	40	< 0.2	7.99	1260	2.5	< 2	0.67	< 0.5	5	59	6
171113	205 226	< 5	1	1.0	30	< 0.2	8.07	1250	3.0	2	0.61	< 0.5	5	77	6
171114	205 226	< 5	2	1.6	30	< 0.2	8.44	200	2.0	< 2	1.02	< 0.5	4	75	7
171115	205 226	< 5	32	2.6	130	0.4	5.19	150	< 0.5	< 2	2.72	< 0.5	5	96	15
171116	205 226	< 5	8	2.0	70	0.6	6.69	1680	1.5	< 2	0.23	< 0.5	4	111	6
171117	205 226	< 5	4	1.8	60	< 0.2	4.13	260	0.5	< 2	11.80	< 0.5	4	154	4
171118	205 226	< 5	4	1.4	40	0.6	6.13	1280	1.5	< 2	0.69	< 0.5	5	163	4
171119	205 226	< 5	4	2.0	30	1.0	6.61	1330	2.0	< 2	0.41	< 0.5	4	159	3
171120	205 226	< 5	2	1.0	20	< 0.2	6.31	1290	2.0	< 2	0.21	< 0.5	4	103	4
171121	205 226	20	52	3.2	660	1.2	5.27	850	1.0	< 2	0.22	11.5	4	133	5
171122	205 226	20	82	4.8	1590	2.0	5.19	790	0.5	< 2	0.25	30.5	5	147	6
171123	205 226	< 5	48	4.8	2470	0.4	5.47	900	1.5	< 2	0.17	15.0	5	155	5
171124	205 226	< 5	20	3.6	1740	0.8	5.64	750	1.5	< 2	0.42	6.5	4	99	6
171125	205 226	< 5	8	1.6	60	< 0.2	6.45	1350	2.0	< 2	0.19	< 0.5	4	132	4
171126	205 226	< 5	14	1.4	90	< 0.2	7.93	260	2.5	< 2	1.13	0.5	5	98	4
171127	205 226	< 5	2	1.4	50	< 0.2	6.79	1250	2.5	< 2	0.34	< 0.5	4	112	3
171128	205 226	< 5	2	1.4	80	< 0.2	6.61	1620	1.5	< 2	0.45	0.5	4	141	4
171129	205 226	< 5	6	1.4	30	< 0.2	10.35	1310	3.0	< 2	0.86	< 0.5	6	97	6
171130	205 226	< 5	2	1.2	10	< 0.2	7.20	1310	3.0	< 2	0.38	< 0.5	4	57	4
171131	205 226	< 5	4	1.4	50	< 0.2	8.13	1690	1.5	< 2	0.24	< 0.5	6	72	5
171132	205 226	< 5	1	1.4	30	< 0.2	6.88	1210	2.0	< 2	0.25	< 0.5	5	91	5
171133	205 226	< 5	1	1.2	30	< 0.2	6.70	1740	1.5	< 2	0.41	< 0.5	4	48	4
171134	205 226	< 5	2	1.6	30	< 0.2	6.76	1060	2.0	< 2	0.22	< 0.5	4	63	6
171135	205 226	< 5	1	1.8	50	< 0.2	7.28	960	2.0	< 2	0.22	< 0.5	4	86	5
171136	205 226	< 5	20	5.0	100	< 0.2	7.05	1060	2.0	< 2	0.27	< 0.5	4	113	6
171137	205 226	< 5	12	2.0	200	< 0.2	6.93	560	2.5	< 2	0.25	< 0.5	4	108	6
171138	205 226	< 5	34	5.6	190	< 0.2	6.15	1100	1.0	< 2	0.25	< 0.5	5	113	7
171139	205 226	< 5	6	2.6	100	< 0.2	7.28	1050	1.5	< 2	0.34	< 0.5	5	87	6
171140	205 226	< 5	14	1.8	210	< 0.2	6.43	180	2.0	< 2	2.78	< 0.5	3	91	6
171141	205 226	< 5	10	2.2	80	< 0.2	6.99	180	2.0	< 2	2.53	< 0.5	4	115	6
171142	205 226	< 5	10	4.2	50	0.6	7.40	580	2.0	2	2.02	< 0.5	5	100	7
171143	205 226	< 5	4	2.0	40	< 0.2	7.79	130	2.0	< 2	1.33	< 0.5	5	125	6
171144	205 226	< 5	10	2.2	20	< 0.2	7.82	210	2.0	< 2	1.58	< 0.5	5	119	7
171145	205 226	< 5	32	2.6	30	0.4	7.23	160	2.0	< 2	0.81	< 0.5	5	165	14
171146	205 226	< 5	6	2.8	80	1.0	5.06	560	1.5	< 2	0.39	2.0	4	173	13
171147	205 226	< 5	12	3.0	420	0.4	6.06	230	1.5	< 2	0.33	19.0	5	220	18
171148	205 226	< 5	20	3.8	260	2.0	5.44	220	1.5	< 2	0.18	12.0	7	189	91
171149	205 226	< 5	32	2.0	180	0.6	5.83	900	1.5	< 2	0.67	13.5	3	297	81

CERTIFICATION:

Terry Tucker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page : 1-B
 Total : 2
 Certificate Date: 23-AUG-96
 Invoice No. : 19627678
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9627678

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171110	205 226	1.71	3.26	0.64	50	1	1.68	5	610	16	97	0.22	18	< 10	40
171111	205 226	1.87	3.76	0.75	40	3	1.67	6	720	18	70	0.27	20	< 10	48
171112	205 226	1.96	3.65	0.71	45	3	1.66	4	670	24	101	0.26	19	< 10	46
171113	205 226	1.90	3.85	0.73	45	2	1.51	4	700	24	87	0.27	19	< 10	44
171114	205 226	2.06	3.96	0.67	50	3	1.33	4	690	34	130	0.27	19	< 10	28
171115	205 226	5.93	2.82	0.05	105	8	1.35	15	450	104	302	0.11	10	< 10	28
171116	205 226	2.40	5.54	0.09	30	4	0.66	6	590	28	68	0.15	15	< 10	10
171117	205 226	2.10	3.47	0.06	1395	4	0.54	7	380	28	326	0.10	10	< 10	80
171118	205 226	2.11	4.84	0.05	105	3	1.14	7	520	40	89	0.11	12	< 10	12
171119	205 226	2.03	4.49	0.08	65	2	1.12	12	580	100	70	0.14	14	< 10	12
171120	205 226	1.05	4.50	0.06	35	1	1.05	6	530	16	67	0.13	15	< 10	10
171121	205 226	5.78	3.64	0.09	40	5	0.61	75	470	120	57	0.11	12	< 10	1565
171122	205 226	9.95	3.68	0.06	45	5	0.78	134	470	180	48	0.09	10	< 10	4230
171123	205 226	8.22	3.86	0.05	35	5	0.53	113	480	210	41	0.10	12	< 10	2280
171124	205 226	7.19	4.07	0.07	105	4	0.69	51	480	336	54	0.11	12	< 10	1450
171125	205 226	2.17	4.45	0.07	45	2	0.88	29	590	48	58	0.13	14	< 10	96
171126	205 226	1.98	2.82	0.24	100	1	1.42	10	660	28	133	0.17	17	< 10	114
171127	205 226	1.01	4.78	0.06	45	1	0.82	5	580	28	57	0.14	13	< 10	46
171128	205 226	1.07	5.42	0.09	40	3	0.58	5	610	30	63	0.15	11	< 10	118
171129	205 226	1.01	4.15	0.24	135	4	2.48	6	660	6	213	0.22	29	< 10	16
171130	205 226	0.76	4.35	0.07	50	2	1.18	4	620	28	68	0.17	13	< 10	22
171131	205 226	0.83	5.33	0.06	30	1	1.09	6	650	24	80	0.20	21	< 10	10
171132	205 226	1.34	4.16	0.06	35	1	0.73	5	580	28	57	0.15	13	< 10	18
171133	205 226	0.59	5.82	0.07	40	1	0.67	4	580	24	68	0.16	12	< 10	14
171134	205 226	1.46	4.27	0.03	35	1	1.02	8	550	46	49	0.14	9	< 10	8
171135	205 226	1.18	4.27	0.04	30	3	1.06	5	600	24	48	0.15	11	< 10	6
171136	205 226	2.75	4.35	0.06	40	5	0.73	8	570	34	53	0.15	14	< 10	8
171137	205 226	2.01	3.41	0.15	60	2	0.18	4	570	12	43	0.18	18	< 10	8
171138	205 226	3.34	4.30	0.11	40	4	0.42	8	540	32	54	0.13	12	< 10	10
171139	205 226	2.15	3.54	0.27	60	4	1.17	5	630	24	89	0.17	18	< 10	12
171140	205 226	4.20	3.54	1.23	405	7	0.17	5	620	22	350	0.16	15	< 10	12
171141	205 226	2.69	3.70	0.89	245	3	0.21	4	630	20	246	0.18	16	< 10	14
171142	205 226	2.59	3.95	1.12	215	3	0.17	4	610	18	175	0.18	17	< 10	12
171143	205 226	2.74	3.97	1.16	290	3	0.19	5	670	16	95	0.17	19	< 10	14
171144	205 226	2.93	3.88	1.29	425	4	0.20	8	780	18	123	0.17	19	< 10	16
171145	205 226	4.44	3.42	0.86	290	4	0.18	40	870	58	74	0.15	90	< 10	46
171146	205 226	1.38	2.55	0.46	280	1	0.14	10	630	176	39	0.06	15	< 10	264
171147	205 226	2.76	2.90	0.46	180	3	0.16	26	670	244	32	0.07	21	< 10	1810
171148	205 226	2.22	2.48	0.41	80	3	0.14	25	580	336	27	0.07	16	< 10	1275
171149	205 226	2.02	2.85	0.64	510	1	0.16	6	670	80	63	0.08	17	< 10	1410

CERTIFICATION:

[Handwritten signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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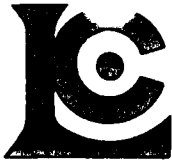
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 2-A
Total: 2
Certificate Date: 23-AUG-96
Invoice No.: 19627678
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9627678

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171150	205 226	< 5	2	1.8	70	< 0.2	6.83	1780	1.5	< 2	1.20	2.0	5	197	36
171151	205 226	< 5	10	4.2	120	< 0.2	5.06	180	2.5	< 2	0.29	2.0	8	293	70
171152	205 226	20	32	4.2	70	1.0	4.64	480	1.5	2	3.07	4.0	10	276	107
171153	205 226	< 5	50	5.6	230	1.4	2.22	240	0.5	< 2	1.73	8.5	5	322	75

CERTIFICATION: Hart Buchler



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PROJECT: WESTMIN RESOURCES LTD.
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 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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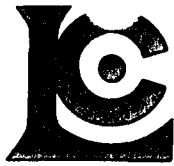
Page Number: 2-B
 Total: 2
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9627678

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171150	205 226	1.67	3.26	0.67	485	3	0.18	6	660	34	77	0.14	28	< 10	318
171151	205 226	1.64	2.20	0.40	55	6	0.13	51	1180	14	38	0.21	312	< 10	392
171152	205 226	2.78	2.15	1.45	305	13	0.07	61	3550	16	221	0.21	334	< 10	404
171153	205 226	1.19	0.97	0.36	140	15	0.03	71	4330	6	278	0.08	387	< 10	790

CERTIFICATION: Hartmut Bickler



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 7 7 9 3

BILLING INFORMATION

Date: 13-AUG-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER, VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9627793

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

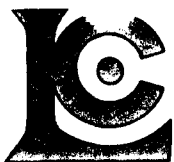
CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
--------------	---------------------------------	------------	--------------	--------

1	244 - Pulp; prev. prepared at Chemex 301 - Cu %	0.00 8.00	8.00	8.00
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Total Cost \$	8.00
Client Discount (25%) \$	-2.00
Net Cost \$	6.00
(Reg# R100938885) GST \$	0.42
TOTAL PAYABLE (CDN) \$	6.42

COPY



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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V7X 1C4

A9627793

Comments: ATTN: TERRY TUCKER

CERTIFICATE

A9627793

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

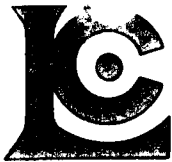
Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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Project: WOLVERINE
Comments: ATTN: TERRY TUCKER

Page # : 1
Total # : 1
Certificate Date: 13-AUG-96
Invoice No. : I9627793
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS

A9627793

SAMPLE	PREP CODE	Cu %									
105071	244 --	1.12									

CERTIFICATION:



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P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 8 4 2 3

BILLING INFORMATION

Date: 3-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9628423

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

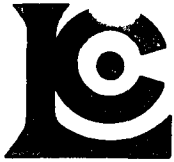
Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	284.46

	Total Cost \$	284.46
	Client Discount (25%) \$	-71.12
	Net Cost \$	213.34
(Reg# R100938885)	GST \$	14.93
	TOTAL PAYABLE (CDN) \$	228.27

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9628423

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9628423

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 30-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	3	RUSH Geo ring to approx 150 mesh
295	3	RUSH crush and split (0-3 Kg)
3202	3	Rock - save entire reject
285	3	ICP - HF digestion charge
287	3	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	3	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	3	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	3	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	3	Ba ppm	XRF	10	50000
444	3	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	3	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	3	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	3	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	3	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	3	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	3	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	3	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	3	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	3	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	3	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	3	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	3	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	3	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	3	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	3	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	3	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	3	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	3	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	3	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	3	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	3	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	3	Pb ppm: 24 element, rock & core	AAS	2	10000
582	3	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	3	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	3	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	3	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	3	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
 Total P.: 1
 Certificate Date: 30-AUG-96
 Invoice No.: 19628423
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9628423

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH	RUSH	RUSH			%	ppm	S.G.			AAS									
105368	255	295	70	6.6	0.01	0.02	0.10	23500	2.62	166	76	720	5.2	2.61	180	3.0	6	3.04	7.0	7	314
105369	255	295	65	9.4	0.01	0.01	0.12	19750	2.68	170	70	5880	9.2	3.28	190	3.0	2	2.79	14.5	5	246
105370	255	295	265	14.3	0.01	0.03	0.07	11980	2.61	176	50	680	14.0	2.74	170	3.5	2	3.22	5.0	6	322

CERTIFICATION: Hart Bichler



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
Total: 1
Certificate Date: 30-AUG-96
Invoice No.: I9628423
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9628423

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105368	255	295	145	2.81	0.69	0.23	290	43	0.04	153	4580	26	115	0.09	778	< 10	774
105369	255	295	121	2.92	1.06	0.26	290	44	0.07	116	3430	54	114	0.10	649	< 10	1110
105370	255	295	103	2.95	0.99	0.30	335	19	0.04	100	3320	100	118	0.10	352	< 10	652

CERTIFICATION: Hunter B. ...



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PHONE: 604-984-0221

: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 8 5 9 0**

BILLING INFORMATION

Date: 26-AUG-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9628590

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

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 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	244 - Pulp; prev. prepared at Chemex 389 - Ag con g/t	0.00 45.00	45.00	135.00
Total Cost \$				135.00
Client Discount (25%) \$				<u>-33.75</u>
Net Cost \$				101.25
(Reg# R100938885) GST \$				<u>7.09</u>
TOTAL PAYABLE (CDN) \$				108.34



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British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9628590

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9628590**

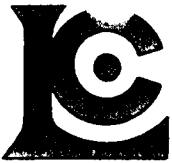
(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-AUG-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	3	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
389	3	Ag g/t: Concentrate	FA-AAS/GRAV	0.3	1000.0



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 1 of 1
Total F : 1
Certificate Date: 23-AUG-96
Invoice No. : I9628590
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628590

SAMPLE	PREP CODE	Ag con g/t									
105371	244 --	1279.0									
105372	244 --	1807.0									
105373	244 --	1245.0									

CERTIFICATION: Sara Letina



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PHONE: 604-984-0221

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VANCOUVER, BC
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INVOICE NUMBER

I 9 6 2 8 6 4 7

BILLING INFORMATION

Date: 16-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9628647

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
10	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
3202	Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	948.20

Total Cost \$	948.20
Client Discount (25%) \$	-237.05
Net Cost \$	711.15
(Reg# R100938885) GST \$	49.78
TOTAL PAYABLE (CDN) \$	760.93

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pz 1-A
 Tot QC 1
 Date: 16-SEP-96
 Invoice #: I9628647
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628647

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb	Ag g/t	Cu	Pb	ZnBa (XRFSpec Gr	As	Sb	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
		RUSH	RUSH	%	%	% ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
CSB-93 CHEMEX MEAN	Std1 1	880 921	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
G90-TOT CHEMEX MEAN	Std1 1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	7.20 7.07	820 766	1.5 0.9	8 5	2.28 2.12	1.5 0.9	20 19	186 141
GEO-90 CHEMEX MEAN	Std1 1	----- -----	----- -----	----- -----	----- -----	870 865	60 61	8.2 7.7	160 189	3.4 3.0	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 1	----- -----	22.4 22.2	0.85 0.83	0.46 0.45	0.94 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	Std1 1	----- -----	----- -----	----- -----	----- -----	----- -----	2.53 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: Hart Bichler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot QC 1
 Date: 16-SEP-96
 Invoice #: I9628647
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628647

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CSB-93 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT CHEMEX MEAN	Std1 1	311 221	4.13 3.98	1.65 1.76	1.06 1.00	1085 1015	9 7	1.71 1.74	89 76	1220 1120	----- -----	342 320	0.34 0.34	112 103	< 10 < 10	318 246
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	210 195	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9628647

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9628647

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 16-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	10	RUSH Geo ring to approx 150 mesh
295	10	RUSH crush and split (0-3 Kg)
3202	10	Rock - save entire reject
285	10	ICP - HF digestion charge
287	10	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	10	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	10	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	10	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	10	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	10	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	10	Ba ppm	XRF	10	50000
444	10	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	10	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	10	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	10	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	10	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	10	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	10	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	10	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	10	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	10	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	10	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	10	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	10	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	10	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	10	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	10	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	10	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	10	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	10	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	10	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	10	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	10	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	10	Pb ppm: 24 element, rock & core	AAS	2	10000
582	10	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	10	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	10	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	10	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	10	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-A
 Total Pages: 1
 Certificate Date: 16-SEP-96
 Invoice No.: I9628647
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628647

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa %	(XRFS) Spec Gr	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH	RUSH	RUSH				S.G.			AAS										
175051	255	295	6730	>350	0.49	6.00	13.00	3710	4.34	2850	>1000	4370	>100.0	1.62	10	< 0.5	< 2	0.80	>500	1	145
175052	255	295	190	55.1	0.02	0.27	1.09	16130	3.03	202	84	1610	50.0	6.67	460	1.5	8	4.40	69.0	4	79
175053	255	295	540	181.0	0.05	0.82	2.40	12440	2.98	170	190	1370	>100.0	5.27	80	2.0	< 2	5.85	155.0	5	144
175054	255	295	260	29.3	0.04	0.18	2.02	9150	2.73	384	180	2370	28.0	3.00	30	3.5	4	2.12	183.0	6	418
175055	255	295	1000	323	0.56	3.29	12.10	485	3.90	1870	550	5390	>100.0	0.22	10	< 0.5	< 2	0.22	>500	16	141
175056	255	295	1560	300	0.21	2.58	7.31	260	4.56	4650	460	8840	>100.0	0.32	10	< 0.5	< 2	0.15	>500	3	148
175057	255	295	1910	275	0.57	1.93	7.70	255	4.56	5300	380	2720	>100.0	0.33	< 10	< 0.5	< 2	0.42	>500	3	105
175058	255	295	1800	>350	7.64	1.32	12.30	3360	3.98	2200	170	1890	>100.0	1.39	10	< 0.5	< 2	2.00	>500	44	71
175059	255	295	320	82.0	1.05	0.11	0.65	3800	2.90	2	105	350	82.0	6.41	750	< 0.5	8	4.15	65.0	9	63
175060	255	295	110	47.3	1.07	0.07	0.23	4730	2.98	1	36	140	46.0	7.64	620	< 0.5	20	3.13	14.5	21	37

CERTIFICATION: Hart Bickler



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page No : 1-B
 Total P: 1
 Certificate Date: 16-SEP-96
 Invoice No. : 19628647
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS	A9628647
-------------------------	----------

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175051	255	295	5600	>25.0	0.60	0.23	520	59	0.03	37	440	>10000	36	0.03	138	< 10	>10000
175052	255	295	310	7.80	2.71	2.51	1315	6	0.22	9	240	2500	168	0.11	110	< 10	10000
175053	255	295	501	8.18	2.03	1.86	1315	13	0.15	32	620	7400	171	0.10	153	< 10	>10000
175054	255	295	540	6.80	1.13	0.45	270	67	0.05	180	4510	1520	65	0.09	1095	< 10	>10000
175055	255	295	3980	17.40	0.05	0.04	200	28	< 0.01	83	260	>10000	8	< 0.01	101	< 10	>10000
175056	255	295	2310	>25.0	0.04	0.05	385	46	0.03	108	< 10	>10000	5	< 0.01	85	< 10	>10000
175057	255	295	6810	>25.0	0.04	0.08	330	56	0.03	119	< 10	>10000	7	< 0.01	77	< 10	>10000
175058	255	295	>10000	>25.0	0.43	0.89	1005	58	0.07	70	< 10	>10000	63	0.01	78	< 10	>10000
175059	255	295	>10000	12.65	0.71	3.21	1880	3	0.21	36	400	940	184	0.10	18	< 10	7420
175060	255	295	>10000	14.50	0.94	5.50	1650	3	0.29	13	480	630	104	0.13	50	< 10	2140

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 2 8 7 6 2**

BILLING INFORMATION

Date: 2-SEP-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9628762

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
115	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	4007.75
Total Cost \$				4007.75
Client Discount (25%) \$				<u>-1001.94</u>
Net Cost \$				3005.81
(Reg# R100938885) GST \$				<u>210.41</u>
TOTAL PAYABLE (CDN) \$				3216.22



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pr: 1-A
 Tot QC: 2
 Date: 30-AUG-96
 Invoice #: 19628762
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628762

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	2	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	3	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	7.48	840	2.0	12	2.34	1.5	20	159	237
G90-TOT	std2	1	----	----	----	----	----	7.17	800	2.0	8	2.22	1.0	19	147	226
G90-TOT	std1	2	----	----	----	----	----	7.17	790	2.0	8	2.20	1.0	19	147	223
G90-TOT	std2	2	----	----	----	----	----	7.20	800	2.0	4	2.21	1.5	18	147	223
G90-TOT	std1	3	----	----	----	----	----	7.14	800	2.0	6	2.20	1.0	19	142	224
G90-TOT	std2	3	----	----	----	----	----	7.31	800	2.0	4	2.23	1.0	19	144	230
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	60	8.0	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	64	7.8	180	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	62	8.2	190	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	62	7.8	180	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	60	8.0	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	3	----	60	8.4	190	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	0.4	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.41	70	< 0.5	< 2	0.03	< 0.5	< 1	17	3	
SIO2-T3	Blnk	2	----	----	----	----	0.32	30	< 0.5	< 2	0.03	< 0.5	< 1	< 1	1	
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	
SL-96	std2	1	775	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std1	3	775	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	810	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	250	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	2	255	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----
171213	Dup1-01		< 5	1	< 0.2	30	< 0.2	3.54	3910	1.0	< 2	0.09	< 0.5	13	170	64
	Orig1-01		< 5	1	0.4	20	< 0.2	3.62	3960	1.0	2	0.10	< 0.5	12	183	66

CERTIFICATION: *Hart Bichler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot QC: 2
 Date: 30-AUG-96
 Invoice #: 19628762
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628762

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	4.18	1.95	1.07	1160	7	1.86	84	1250	----	347	0.36	111	< 10	252
G90-TOT	std2	1	3.98	1.83	1.02	1060	7	1.82	80	1160	----	333	0.34	104	< 10	246
G90-TOT	std1	2	3.94	1.82	1.01	1055	6	1.77	80	1170	----	326	0.34	103	< 10	246
G90-TOT	std2	2	3.97	1.85	1.02	1075	5	1.79	80	1180	----	331	0.35	105	< 10	246
G90-TOT	std1	3	3.93	1.85	1.01	1050	8	1.78	77	1150	----	328	0.34	102	< 10	242
G90-TOT	std2	3	4.02	1.87	1.03	1075	7	1.81	79	1170	----	332	0.35	105	< 10	246
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	std1	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	std1	3	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std2	3	----	----	----	----	----	----	----	----	200	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.13	0.10	0.03	10	< 1	0.01	5	180	----	137	0.02	5	< 10	6
SIO2-T3	Blnk	2	0.07	0.06	0.01	5	< 1	0.01	2	150	----	141	0.01	2	< 10	2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
171213	Dupl	01	1.86	1.30	0.61	2610	< 1	0.04	37	330	6	67	0.14	71	< 10	64
	Orig	01	1.86	1.36	0.62	2710	1	0.05	38	340	8	69	0.14	72	< 10	64

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

PROJECT: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 2-A
 Tot Q 2
 Date: 30-AUG-96
 Invoice #: I9628762
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628762

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171253	Dup2-01	< 5	4	1.2	30	< 0.2	2.22	620	0.5	< 2	0.06	< 0.5	6	187	38
	Orig2-01	< 5	2	1.6	30	< 0.2	2.05	470	0.5	< 2	0.05	< 0.5	5	172	35
171293	Dup3-01	< 5	52	1.4	30	< 0.2	3.34	250	3.0	< 2	0.66	< 0.5	8	200	91
	Orig3-01	< 5	56	1.8	40	< 0.2	3.26	350	3.0	< 2	0.64	< 0.5	7	208	88

CERTIFICATION: [Signature]



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PROJECT: WOLVERINE
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QC Pa 2-B
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Project: WOLVERINE
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QC DATA OF CERTIFICATE

A9628762

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171253	Dup2-01	1.35	0.87	0.28	45	1	0.04	33	230	6	60	0.09	49	< 10	100
	Orig2-01	1.25	0.80	0.26	40	1	0.04	29	210	6	55	0.08	44	< 10	94
171293	Dup3-01	1.52	1.68	0.35	235	1	0.06	37	510	40	17	0.13	153	< 10	64
	Orig3-01	1.47	1.61	0.34	230	1	0.06	36	470	42	17	0.12	149	< 10	62

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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A9628762

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9628762

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 30-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	115	Geochem ring to approx 150 mesh
226	115	0-3 Kg crush and split
3202	115	Rock - save entire reject
285	115	ICP - HF digestion charge
287	115	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	115	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	115	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	115	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	115	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	115	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	115	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	115	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	115	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	115	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	115	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	115	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	115	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	115	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	115	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	115	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	115	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	115	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	115	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	115	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	115	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	115	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	115	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	115	Pb ppm: 24 element, rock & core	AAS	2	10000
582	115	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	115	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	115	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	115	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	115	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-A
 Total 3
 Certificate Date: 30-AUG-96
 Invoice No. : I9628762
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628762

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171213	205 226	< 5	1	0.4	20	< 0.2	3.62	3960	1.0	2	0.10	< 0.5	12	183	66
171214	205 226	< 5	1	0.2	20	< 0.2	3.89	4110	1.0	4	0.10	< 0.5	12	236	85
171215	205 226	< 5	2	0.2	30	< 0.2	3.22	3880	0.5	2	0.10	< 0.5	9	181	101
171216	205 226	< 5	6	0.8	20	< 0.2	3.63	2390	1.0	2	0.53	< 0.5	12	203	66
171217	205 226	< 5	4	0.4	10	< 0.2	4.42	4490	1.5	2	0.17	< 0.5	14	201	68
171218	205 226	< 5	8	0.4	20	< 0.2	4.14	5600	1.5	2	0.08	< 0.5	14	271	93
171219	205 226	< 5	8	1.6	60	< 0.2	5.21	390	1.5	< 2	0.15	< 0.5	17	190	119
171220	205 226	< 5	10	3.2	50	< 0.2	5.31	260	2.0	2	0.35	< 0.5	14	381	98
171221	205 226	< 5	1	2.0	50	< 0.2	3.39	230	1.0	< 2	0.15	< 0.5	8	219	73
171222	205 226	< 5	6	0.6	40	< 0.2	4.27	490	1.5	2	0.11	< 0.5	7	312	68
171223	205 226	< 5	28	0.4	50	< 0.2	3.12	2190	1.0	< 2	0.15	< 0.5	22	199	109
171224	205 226	< 5	1	0.2	30	< 0.2	2.70	6080	0.5	4	0.12	< 0.5	6	218	71
171225	205 226	< 5	1	< 0.2	< 10	< 0.2	2.01	310	0.5	< 2	0.22	< 0.5	3	203	64
171226	205 226	5	2	< 0.2	30	< 0.2	2.25	590	1.0	< 2	0.09	< 0.5	4	226	80
171227	205 226	< 5	4	1.6	80	< 0.2	2.02	480	1.5	< 2	0.07	< 0.5	5	192	87
171228	205 226	< 5	6	1.0	80	< 0.2	1.69	640	2.0	< 2	0.04	< 0.5	4	303	67
171229	205 226	< 5	6	1.0	120	< 0.2	1.47	540	1.5	< 2	0.07	< 0.5	2	199	62
171230	205 226	< 5	10	4.8	160	< 0.2	2.31	350	2.5	2	0.04	< 0.5	5	231	70
171231	205 226	< 5	4	3.8	290	< 0.2	2.82	270	2.0	< 2	0.12	3.0	12	193	64
171232	205 226	< 5	12	9.8	140	< 0.2	7.39	510	5.0	< 2	0.11	< 0.5	12	98	69
171233	205 226	< 5	2	6.6	70	< 0.2	2.94	210	1.5	< 2	0.31	< 0.5	17	197	74
171234	205 226	< 5	10	6.0	290	< 0.2	4.01	240	3.5	< 2	0.13	2.5	6	172	33
171235	205 226	< 5	2	5.8	80	< 0.2	7.34	3360	6.0	< 2	1.53	< 0.5	5	78	20
171236	205 226	5	6	4.0	1140	< 0.2	2.04	220	2.0	6	0.28	9.5	6	335	96
171237	205 226	< 5	2	2.6	50	< 0.2	8.10	>10000	8.0	< 2	0.50	< 0.5	7	59	7
171238	205 226	< 5	10	12.0	90	< 0.2	4.58	340	4.5	2	0.92	< 0.5	12	207	93
171239	205 226	< 5	8	5.8	40	< 0.2	4.42	230	4.5	< 2	1.01	< 0.5	14	114	37
171240	205 226	15	44	9.8	760	< 0.2	3.65	260	3.5	2	0.27	6.0	11	276	60
171241	205 226	< 5	10	3.0	210	0.4	7.47	480	5.5	2	0.91	1.5	6	92	26
171242	205 226	< 5	26	1.4	350	0.2	3.77	430	2.5	< 2	0.89	1.5	15	195	62
171243	205 226	< 5	2	4.4	1600	< 0.2	2.93	240	3.5	< 2	0.20	5.5	6	158	56
171244	205 226	< 5	1	1.0	240	0.4	3.18	200	3.0	< 2	0.20	1.5	6	274	68
171245	205 226	< 5	1	0.2	90	< 0.2	3.41	310	4.5	< 2	0.24	0.5	23	145	85
171246	205 226	80	2	< 0.2	220	< 0.2	2.85	730	2.5	< 2	0.09	0.5	5	133	48
171247	205 226	< 5	1	0.2	30	< 0.2	4.15	960	3.5	< 2	0.06	< 0.5	6	132	71
171248	205 226	< 5	1	1.4	200	< 0.2	2.90	430	2.0	< 2	0.03	< 0.5	5	228	59
171249	205 226	5	2	1.0	50	< 0.2	1.65	230	0.5	2	0.02	< 0.5	4	167	60
171250	205 226	10	1	1.2	60	< 0.2	1.38	280	< 0.5	< 2	0.01	< 0.5	4	262	51
171251	205 226	10	4	1.8	50	< 0.2	1.48	230	< 0.5	< 2	0.04	< 0.5	4	205	55
171252	205 226	< 5	1	1.0	30	< 0.2	1.16	950	< 0.5	2	0.03	< 0.5	3	345	44

CERTIFICATION: Hank Buchler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-B
Total: 3
Certificate Date: 30-AUG-96
Invoice No.: 19628762
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9628762

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171213	205 226	1.86	1.36	0.62	2710	1	0.05	38	340	8	69	0.14	72	< 10	64
171214	205 226	2.41	1.16	0.79	1090	< 1	0.05	39	410	10	34	0.20	93	< 10	72
171215	205 226	1.97	1.04	0.63	1225	< 1	0.04	32	380	6	35	0.16	67	< 10	64
171216	205 226	1.95	1.41	0.59	425	2	0.06	41	580	10	95	0.19	80	< 10	74
171217	205 226	2.23	1.35	0.44	2430	< 1	0.07	44	660	14	48	0.18	78	< 10	86
171218	205 226	2.38	1.36	0.67	525	1	0.06	50	330	8	31	0.18	90	< 10	96
171219	205 226	2.74	2.09	0.60	1640	3	0.10	157	460	8	55	0.23	174	< 10	292
171220	205 226	3.08	2.24	0.74	845	4	0.10	128	910	14	125	0.24	178	< 10	250
171221	205 226	3.03	1.20	0.50	670	1	0.07	56	340	8	57	0.16	106	< 10	108
171222	205 226	2.23	1.63	0.66	445	2	0.08	82	260	6	47	0.22	150	< 10	168
171223	205 226	1.22	1.27	0.41	470	3	0.05	112	130	4	59	0.16	110	< 10	142
171224	205 226	1.63	0.98	0.43	2040	< 1	0.04	39	170	4	47	0.14	88	< 10	92
171225	205 226	2.53	0.54	0.32	495	1	0.03	17	560	4	134	0.11	71	< 10	28
171226	205 226	1.49	0.60	0.26	250	4	0.04	39	130	4	58	0.10	73	< 10	58
171227	205 226	0.99	0.71	0.20	30	6	0.04	70	310	< 2	59	0.07	92	< 10	140
171228	205 226	0.85	0.55	0.15	25	3	0.03	30	200	6	33	0.07	74	< 10	150
171229	205 226	0.76	0.48	0.14	20	1	0.01	21	310	4	49	0.06	75	< 10	154
171230	205 226	1.15	0.93	0.24	30	7	0.04	38	200	26	20	0.09	99	< 10	208
171231	205 226	4.37	1.18	0.36	6420	4	0.05	50	330	126	13	0.10	115	< 10	804
171232	205 226	6.04	3.26	0.62	6550	2	0.15	47	310	56	11	0.15	38	< 10	218
171233	205 226	6.71	1.26	0.27	>10000	2	0.04	58	950	32	25	0.09	197	< 10	330
171234	205 226	1.94	1.78	0.30	235	3	0.09	24	540	32	16	0.10	59	< 10	374
171235	205 226	2.41	3.33	0.93	1635	1	0.12	18	960	44	111	0.16	41	< 10	252
171236	205 226	2.07	0.91	0.23	730	3	0.04	33	190	140	21	0.07	70	< 10	2820
171237	205 226	1.75	3.71	0.74	605	3	0.17	15	180	44	47	0.18	55	< 10	148
171238	205 226	3.30	2.04	0.54	1175	3	0.09	37	650	24	81	0.17	157	< 10	190
171239	205 226	4.07	1.97	0.58	1290	4	0.08	28	280	10	94	0.16	137	< 10	76
171240	205 226	3.90	1.61	0.37	975	15	0.07	53	410	180	28	0.14	159	< 10	1590
171241	205 226	3.63	3.49	1.04	800	7	0.14	18	160	212	98	0.15	57	< 10	638
171242	205 226	1.72	1.76	0.68	1190	4	0.07	44	340	66	107	0.17	79	< 10	972
171243	205 226	1.22	0.63	0.33	250	12	0.06	42	120	78	70	0.10	123	< 10	2230
171244	205 226	1.57	0.75	0.28	395	5	0.09	42	280	530	45	0.11	119	< 10	766
171245	205 226	1.66	0.84	0.32	700	4	0.05	123	240	34	74	0.13	178	< 10	510
171246	205 226	1.01	1.11	0.31	135	1	0.05	25	200	34	150	0.12	89	< 10	336
171247	205 226	1.13	1.61	0.43	110	1	0.07	20	140	32	36	0.15	103	< 10	108
171248	205 226	1.10	1.01	0.26	85	5	0.06	28	110	90	19	0.11	84	< 10	528
171249	205 226	0.79	0.51	0.15	25	< 1	0.02	28	60	4	13	0.06	61	< 10	68
171250	205 226	0.88	0.37	0.12	25	1	0.01	34	80	< 2	14	0.05	54	< 10	84
171251	205 226	0.92	0.41	0.14	25	1	0.01	36	170	< 2	35	0.05	54	< 10	82
171252	205 226	0.71	0.28	0.09	25	1	0.01	20	120	< 2	21	0.04	41	< 10	74

CERTIFICATION: Stuart Bickler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 2-A
Total 3
Certificate Date: 30-AUG-96
Invoice No. : I9628762
P.O. Number : 6406
Account : GPW

CERTIFICATE OF ANALYSIS

A9628762

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171253	205 226	< 5	2	1.6	30	< 0.2	2.05	470	0.5	< 2	0.05	< 0.5	5	172	35
171254	205 226	< 5	2	0.4	10	< 0.2	2.86	880	0.5	< 2	0.10	< 0.5	6	244	55
171255	205 226	25	4	3.2	110	0.4	4.27	240	1.5	< 2	0.19	< 0.5	15	224	115
171256	205 226	40	1	1.4	70	0.2	3.78	450	1.0	< 2	0.34	< 0.5	9	224	75
171257	205 226	10	1	2.8	70	< 0.2	2.54	410	0.5	< 2	1.70	< 0.5	5	208	43
171258	205 226	< 5	2	2.4	120	< 0.2	3.64	420	1.0	< 2	0.26	< 0.5	10	161	72
171259	205 226	< 5	1	0.2	10	< 0.2	2.50	2100	0.5	< 2	0.05	< 0.5	4	116	37
171260	205 226	< 5	2	0.2	10	< 0.2	2.97	1970	0.5	< 2	0.07	< 0.5	5	133	90
171261	205 226	5	6	0.6	70	< 0.2	1.72	630	0.5	< 2	0.12	< 0.5	4	185	66
171262	205 226	< 5	10	1.4	340	< 0.2	1.98	450	2.5	< 2	0.10	< 0.5	4	191	65
171263	205 226	10	12	2.4	890	0.8	2.25	320	3.0	< 2	0.12	< 0.5	5	191	90
171264	205 226	15	10	1.8	580	< 0.2	2.47	420	3.0	< 2	0.05	0.5	5	242	49
171265	205 226	< 5	10	0.6	120	< 0.2	3.41	860	2.0	< 2	0.11	< 0.5	10	190	75
171266	205 226	< 5	6	0.6	40	< 0.2	2.68	1030	0.5	< 2	0.06	< 0.5	7	158	75
171267	205 226	30	6	0.4	10	< 0.2	2.32	730	0.5	< 2	0.36	< 0.5	4	159	35
171268	205 226	5	6	0.6	10	< 0.2	2.26	790	0.5	< 2	0.25	< 0.5	5	207	46
171269	205 226	10	16	0.6	30	< 0.2	3.36	1100	1.0	< 2	0.20	< 0.5	11	140	87
171270	205 226	< 5	10	0.4	10	< 0.2	2.48	370	0.5	< 2	0.28	< 0.5	6	312	66
171271	205 226	< 5	4	0.4	20	< 0.2	1.60	290	0.5	< 2	0.05	< 0.5	5	190	56
171272	205 226	< 5	6	1.0	30	< 0.2	1.79	460	0.5	< 2	0.05	< 0.5	7	247	70
171273	205 226	10	16	1.0	30	< 0.2	1.58	1240	< 0.5	< 2	0.06	< 0.5	5	232	64
171274	205 226	< 5	1	1.2	160	0.2	1.58	440	0.5	< 2	0.08	< 0.5	3	241	49
171275	205 226	5	1	1.2	40	< 0.2	2.33	480	0.5	< 2	0.16	< 0.5	5	176	64
171276	205 226	< 5	6	0.6	50	< 0.2	2.86	1770	0.5	< 2	0.19	< 0.5	7	135	63
171277	205 226	< 5	1	1.0	50	< 0.2	3.32	360	1.5	< 2	0.15	< 0.5	6	180	72
171278	205 226	< 5	2	1.0	60	< 0.2	3.68	790	1.5	< 2	0.27	< 0.5	7	211	65
171279	205 226	< 5	1	0.2	< 10	< 0.2	3.05	1000	1.0	< 2	0.15	< 0.5	5	142	47
171280	205 226	< 5	1	0.2	< 10	< 0.2	2.33	950	0.5	< 2	0.53	< 0.5	4	172	31
171281	205 226	< 5	2	0.2	40	< 0.2	3.35	550	1.5	< 2	0.35	< 0.5	6	147	50
171282	205 226	15	1	0.2	50	< 0.2	3.16	470	1.0	< 2	0.25	< 0.5	7	192	55
171283	205 226	< 5	1	0.4	530	< 0.2	2.46	580	1.5	< 2	0.17	< 0.5	6	134	54
171284	205 226	< 5	1	2.0	250	< 0.2	2.75	200	1.5	< 2	0.35	< 0.5	7	187	65
171285	205 226	< 5	2	2.8	230	< 0.2	2.06	180	1.5	< 2	0.15	< 0.5	6	211	58
171286	205 226	< 5	1	2.6	180	< 0.2	1.48	100	1.5	< 2	0.12	< 0.5	3	234	52
171287	205 226	15	1	3.0	600	< 0.2	2.24	130	2.0	< 2	0.12	2.5	7	177	100
171288	205 226	10	1	1.8	130	< 0.2	2.27	170	2.0	< 2	0.06	< 0.5	7	219	69
171289	205 226	10	2	2.4	170	< 0.2	3.04	160	3.0	< 2	0.37	< 0.5	9	190	92
171290	205 226	15	8	2.8	610	< 0.2	2.64	120	2.5	< 2	0.06	< 0.5	19	215	94
171291	205 226	15	22	1.2	220	< 0.2	2.45	250	2.5	< 2	0.10	< 0.5	7	177	79
171292	205 226	5	10	0.8	40	< 0.2	2.18	320	2.0	< 2	0.11	< 0.5	4	209	72

CERTIFICATION:

[Handwritten Signature]



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WESTMIN RESOURCES LTD.
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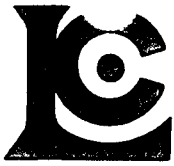
Page 1 of 2-B
 Total F. : 3
 Certificate Date: 30-AUG-96
 Invoice No. : 19628762
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628762

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171253	205 226	1.25	0.80	0.26	40	1	0.04	29	210	6	55	0.08	44	< 10	94
171254	205 226	2.12	0.80	0.37	580	1	0.05	34	280	4	58	0.12	58	< 10	120
171255	205 226	3.17	1.50	0.58	440	7	0.08	110	690	8	115	0.21	142	< 10	298
171256	205 226	2.46	1.27	0.66	615	3	0.07	79	320	8	153	0.21	132	< 10	218
171257	205 226	2.02	0.81	0.98	1015	1	0.02	47	480	6	768	0.12	79	< 10	146
171258	205 226	2.31	1.03	0.50	760	1	0.06	80	300	8	121	0.17	100	< 10	310
171259	205 226	1.63	0.96	0.33	625	< 1	0.03	29	140	4	35	0.12	67	< 10	94
171260	205 226	1.66	1.13	0.36	345	1	0.04	36	140	4	90	0.14	74	< 10	88
171261	205 226	1.26	0.33	0.23	235	1	0.03	41	80	12	79	0.06	64	< 10	174
171262	205 226	0.86	0.64	0.23	125	3	0.03	34	330	70	131	0.08	87	< 10	544
171263	205 226	1.08	0.79	0.29	165	3	0.05	58	250	164	159	0.08	97	< 10	1725
171264	205 226	1.89	0.64	0.30	260	8	0.05	35	150	58	133	0.09	79	< 10	1140
171265	205 226	1.63	1.20	0.41	290	1	0.07	61	170	10	204	0.13	88	< 10	300
171266	205 226	1.66	0.94	0.32	445	1	0.04	60	150	4	34	0.13	82	< 10	230
171267	205 226	1.60	0.76	0.32	620	< 1	0.04	32	150	4	114	0.11	59	< 10	148
171268	205 226	1.58	0.73	0.31	615	< 1	0.07	33	150	4	94	0.09	61	< 10	170
171269	205 226	1.93	0.97	0.46	365	1	0.05	69	190	6	83	0.16	85	< 10	162
171270	205 226	1.60	0.59	0.33	480	3	0.05	51	210	4	144	0.11	64	< 10	176
171271	205 226	1.00	0.31	0.15	45	5	0.02	47	200	4	54	0.05	43	< 10	142
171272	205 226	1.14	0.47	0.16	275	3	0.03	62	90	12	34	0.07	61	< 10	240
171273	205 226	0.82	0.30	0.10	115	1	0.02	30	180	4	38	0.06	58	< 10	100
171274	205 226	0.92	0.49	0.16	160	1	0.03	35	240	80	66	0.05	57	< 10	314
171275	205 226	1.06	0.64	0.24	155	1	0.05	45	70	8	140	0.08	74	< 10	90
171276	205 226	1.14	0.61	0.28	155	1	0.08	49	90	6	364	0.10	90	< 10	122
171277	205 226	1.48	1.16	0.36	260	1	0.06	48	90	10	108	0.12	87	< 10	106
171278	205 226	1.94	1.26	0.41	465	2	0.07	36	120	8	145	0.13	89	< 10	212
171279	205 226	1.30	1.14	0.32	275	2	0.05	31	110	8	90	0.11	74	< 10	60
171280	205 226	1.34	0.86	0.40	335	1	0.04	19	100	4	410	0.08	61	< 10	46
171281	205 226	1.94	1.22	0.42	410	1	0.07	32	120	< 2	451	0.13	82	< 10	124
171282	205 226	1.46	1.26	0.37	225	2	0.07	38	140	8	243	0.13	83	< 10	114
171283	205 226	0.96	0.92	0.28	120	1	0.05	39	120	8	182	0.10	79	< 10	448
171284	205 226	1.62	1.06	0.37	385	1	0.06	52	100	36	52	0.11	104	< 10	204
171285	205 226	1.46	1.01	0.26	330	1	0.04	56	140	120	15	0.08	101	< 10	670
171286	205 226	1.95	0.65	0.19	225	2	0.02	30	90	62	6	0.06	90	< 10	538
171287	205 226	2.26	1.04	0.27	130	2	0.03	48	140	96	7	0.08	112	< 10	1330
171288	205 226	1.32	1.16	0.25	85	2	0.05	38	170	74	4	0.09	110	< 10	292
171289	205 226	1.77	1.47	0.39	210	1	0.06	49	240	70	23	0.12	150	< 10	346
171290	205 226	1.67	1.30	0.28	40	3	0.05	88	170	130	4	0.11	160	< 10	1010
171291	205 226	1.41	1.28	0.26	70	2	0.05	23	170	72	5	0.08	106	< 10	384
171292	205 226	1.07	1.11	0.22	85	1	0.04	14	110	18	4	0.08	89	< 10	36

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 3-A
 Total 3
 Certificate Date: 30-AUG-96
 Invoice No. : I9628762
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628762

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171293	205 226	< 5	56	1.8	40	< 0.2	3.26	350	3.0	< 2	0.64	< 0.5	7	208	88
171294	205 226	< 5	20	1.4	120	< 0.2	3.32	280	3.0	< 2	0.96	0.5	8	182	97
171295	205 226	530	1	0.6	80	< 0.2	2.64	130	1.5	6	2.50	< 0.5	5	126	88
171296	205 226	< 5	1	0.6	430	< 0.2	3.69	390	3.5	< 2	0.54	1.5	9	186	71
171297	205 226	< 5	2	1.4	500	< 0.2	3.36	180	3.0	2	0.71	3.0	9	137	59
171298	205 226	< 5	1	2.4	690	< 0.2	2.80	120	2.5	8	5.34	3.0	16	142	92
171299	205 226	10	6	2.0	170	< 0.2	3.84	200	3.0	< 2	0.33	< 0.5	15	154	82
171300	205 226	< 5	1	1.8	20	< 0.2	5.19	190	4.0	< 2	1.16	< 0.5	21	155	96
171301	205 226	< 5	2	2.0	1280	< 0.2	4.20	140	3.5	< 2	1.26	11.0	18	168	84
171302	205 226	< 5	1	1.6	110	< 0.2	3.30	370	2.0	< 2	12.60	0.5	10	169	51
171303	205 226	< 5	6	3.0	40	< 0.2	5.53	320	4.5	2	1.24	< 0.5	20	130	57
171304	205 226	495	1	1.0	70	< 0.2	2.39	190	1.5	2	9.06	< 0.5	7	180	37
171305	205 226	10	1	0.8	40	< 0.2	3.21	260	2.5	< 2	1.60	< 0.5	12	237	50
171306	205 226	< 5	26	3.2	150	0.6	3.90	90	2.5	< 2	0.98	29.0	8	235	54
171307	205 226	< 5	1	1.6	70	< 0.2	9.74	300	5.5	< 2	2.77	< 0.5	21	197	78
171308	205 226	< 5	2	1.0	50	< 0.2	8.96	150	5.0	< 2	4.13	< 0.5	23	238	93
171309	205 226	< 5	88	0.8	10	< 0.2	9.99	370	5.0	< 2	3.45	0.5	16	199	49
171310	205 226	< 5	8	0.4	10	< 0.2	9.81	3190	3.5	< 2	4.24	< 0.5	16	264	58
171311	205 226	< 5	2	0.6	< 10	< 0.2	9.25	3540	3.5	< 2	3.37	< 0.5	14	199	36
171312	205 226	< 5	18	1.4	10	< 0.2	7.91	2090	3.5	< 2	1.92	< 0.5	10	101	25
171313	205 226	< 5	10	0.2	30	< 0.2	2.20	680	1.0	4	3.85	< 0.5	4	214	25
171314	205 226	< 5	1	1.2	70	< 0.2	7.54	550	3.5	< 2	0.43	< 0.5	3	95	11
171315	205 226	< 5	1	0.8	100	< 0.2	7.87	380	3.5	2	0.70	< 0.5	5	106	12
171316	205 226	< 5	2	0.4	50	< 0.2	8.98	480	4.0	< 2	3.89	< 0.5	11	276	47
171317	205 226	< 5	1	0.8	50	< 0.2	8.78	860	3.0	< 2	3.53	< 0.5	11	240	44
171318	205 226	< 5	1	1.6	50	< 0.2	0.98	170	< 0.5	4	4.20	< 0.5	5	160	53
171319	205 226	< 5	2	1.0	100	< 0.2	7.45	440	3.0	< 2	0.58	< 0.5	3	58	5
171320	205 226	< 5	1	1.6	220	< 0.2	7.51	280	4.0	2	1.54	0.5	6	115	15
171321	205 226	< 5	4	1.0	100	< 0.2	7.66	370	3.5	< 2	0.39	< 0.5	3	46	6
171322	205 226	< 5	10	3.4	420	0.4	8.66	330	4.5	2	1.15	2.0	5	148	23
171323	205 226	< 5	28	7.0	150	1.0	3.95	130	1.5	< 2	2.21	0.5	5	209	36
171324	205 226	10	26	6.8	1040	4.4	6.90	240	3.5	< 2	1.92	11.0	5	163	119
171325	205 226	5	30	11.0	500	1.2	8.61	160	6.0	< 2	0.20	< 0.5	3	113	22
171326	205 226	< 5	14	2.8	70	< 0.2	3.23	110	1.5	< 2	1.00	< 0.5	3	218	9
171327	205 226	< 5	16	4.0	100	0.4	6.23	170	2.5	< 2	0.32	< 0.5	3	117	9

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page # er :3-B
 Total i :3
 Certificate Date: 30-AUG-96
 Invoice No. : 19628762
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628762

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171293	205 226	1.47	1.61	0.34	230	1	0.06	36	470	42	17	0.12	149	< 10	62
171294	205 226	2.41	1.70	0.44	640	1	0.04	55	270	84	32	0.15	185	< 10	386
171295	205 226	12.15	1.41	1.24	4350	< 1	0.02	32	140	< 2	92	0.13	98	< 10	64
171296	205 226	1.91	1.88	0.41	575	1	0.06	53	360	60	20	0.15	174	< 10	1015
171297	205 226	4.07	1.76	0.49	2480	< 1	0.06	56	580	112	34	0.14	163	< 10	1305
171298	205 226	11.80	1.06	0.97	7000	5	0.03	77	830	200	236	0.13	187	< 10	1650
171299	205 226	1.98	1.60	0.45	730	1	0.08	34	330	300	24	0.15	182	< 10	266
171300	205 226	2.93	2.72	0.71	1860	1	0.11	52	300	20	52	0.21	146	< 10	40
171301	205 226	3.00	2.28	0.57	1950	1	0.07	61	220	94	45	0.16	136	< 10	3010
171302	205 226	5.05	1.30	0.87	5190	< 1	0.03	29	260	20	485	0.09	91	< 10	132
171303	205 226	2.92	3.04	0.75	1705	1	0.11	63	330	14	52	0.24	154	< 10	42
171304	205 226	5.33	0.96	0.95	6400	< 1	0.01	17	470	6	262	0.09	50	< 10	26
171305	205 226	2.37	1.72	0.57	2530	1	0.03	38	490	20	64	0.15	88	< 10	76
171306	205 226	3.40	0.93	0.43	535	9	0.06	62	600	136	28	0.15	214	< 10	3800
171307	205 226	4.79	5.05	1.09	505	1	0.23	52	3390	10	99	1.05	126	< 10	120
171308	205 226	6.02	4.81	1.36	1950	1	0.22	46	2620	30	106	0.78	140	< 10	112
171309	205 226	4.67	4.73	0.99	520	4	0.25	39	2260	36	129	0.74	144	< 10	186
171310	205 226	6.57	4.16	1.30	1040	1	0.22	45	4560	2	150	1.36	160	< 10	96
171311	205 226	6.21	3.88	1.44	645	< 1	0.21	41	4050	< 2	112	1.33	136	< 10	80
171312	205 226	2.79	4.24	1.12	320	3	0.16	26	1360	20	62	0.45	61	< 10	84
171313	205 226	1.44	1.12	0.51	525	1	0.01	8	560	16	109	0.08	19	< 10	40
171314	205 226	1.70	3.90	1.03	85	10	0.14	10	270	36	19	0.14	21	< 10	90
171315	205 226	2.12	3.99	1.15	165	5	0.15	16	480	30	29	0.21	35	< 10	170
171316	205 226	5.13	4.46	1.59	750	1	0.21	42	3560	6	171	1.02	121	< 10	168
171317	205 226	5.44	4.21	1.47	710	1	0.23	35	3100	< 2	140	1.12	116	< 10	158
171318	205 226	5.49	0.50	0.29	615	< 1	0.01	25	380	40	84	0.04	24	< 10	14
171319	205 226	1.67	3.64	1.02	105	6	0.14	7	270	32	24	0.14	12	< 10	36
171320	205 226	2.61	3.72	1.20	395	6	0.15	25	870	62	49	0.22	73	< 10	240
171321	205 226	1.59	3.70	1.06	80	4	0.15	10	270	24	24	0.16	18	< 10	52
171322	205 226	2.32	4.44	1.36	205	8	0.18	32	1170	88	47	0.35	92	< 10	390
171323	205 226	2.21	1.68	0.54	490	12	0.04	47	1160	38	33	0.15	248	< 10	238
171324	205 226	2.36	3.38	0.88	475	10	0.12	28	1340	90	32	0.35	177	< 10	1410
171325	205 226	3.36	3.30	0.29	95	16	0.22	62	700	62	34	0.17	402	< 10	104
171326	205 226	2.80	1.34	0.09	280	3	0.07	21	360	56	30	0.09	35	< 10	44
171327	205 226	4.41	2.91	0.06	55	3	0.18	13	500	64	38	0.15	16	< 10	24

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 8 7 7 4

BILLING INFORMATION

Date: 6-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9628774

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
89	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	3101.65
				Total Cost \$ 3101.65
				Client Discount (25%) \$ -775.41
				Net Cost \$ 2326.24
				(Reg# R100938885) GST \$ 162.84
				TOTAL PAYABLE (CDN) \$ 2489.08



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot QC: 1
 Date: 02-SEP-96
 Invoice #: I9628774
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628774

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.92	780	1.5	2	2.15	1.5	20	138	218
G90-TOT	std2	1	----	----	----	----	----	6.70	760	1.5	8	2.05	1.5	18	133	221
G90-TOT	std1	2	----	----	----	----	----	6.90	780	1.5	2	2.07	1.5	18	138	217
G90-TOT	std2	2	----	----	----	----	----	6.97	760	1.5	4	2.10	0.5	19	139	226
G90-TOT	std1	3	----	----	----	----	----	7.36	810	1.5	8	2.25	0.5	20	153	232
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	66	8.2	200	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	62	8.2	190	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	62	8.6	210	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	60	8.4	230	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	66	8.2	190	2.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	20	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.31	30	< 0.5	< 2	0.03	< 0.5	< 1	3	3	3
SIO2-T3	Blnk	2	----	----	----	----	0.32	20	< 0.5	< 2	0.03	< 0.5	< 1	3	3	1
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	5	2
SL-96	std2	1	770	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std1	3	760	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	250	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	2	245	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----
105159	Dup1	01	10	16	3.4	160	1.8	5.60	3030	< 0.5	2	0.86	9.0	11	62	491
	Orig1	01	15	14	3.8	170	1.2	5.58	3030	0.5	2	0.84	9.0	10	59	492
105223	Dup2	01	85	64	26	1560	6.0	6.64	260	3.0	< 2	1.35	17.0	4	218	74
	Orig2	01	90	52	24	1450	5.6	6.68	230	3.0	< 2	1.40	18.0	5	242	75

CERTIFICATION: *Hart Buchler*



Chemex Labs Ltd.

Analytical Chemists *Geochemists *Registered Assayers

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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa
 Tot QC 1
 Date: 02-SEP-96
 Invoice #: I9628774
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9628774

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	Std1	1	4.02	1.75	0.99	1040	8	1.76	74	1150	----	322	0.33	104	< 10	236
G90-TOT	Std2	1	3.68	1.69	0.95	975	6	1.75	72	1090	----	315	0.32	100	< 10	230
G90-TOT	Std1	2	3.84	1.69	0.99	985	7	1.81	73	1090	----	320	0.33	99	< 10	244
G90-TOT	Std2	2	3.86	1.64	1.01	990	8	1.75	71	1100	----	314	0.34	101	< 10	242
G90-TOT	Std1	3	4.12	1.72	1.07	1055	9	1.87	76	1150	----	337	0.36	107	< 10	252
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	Std1	1	----	----	----	----	----	----	----	----	196	----	----	----	----	----
GEO-90	Std2	1	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std2	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	Std1	3	----	----	----	----	----	----	----	----	190	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	4	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.07	0.06	0.02	5	< 1	0.01	< 1	160	----	138	0.01	4	< 10	2
SIO2-T3	Blnk	2	0.07	0.07	0.02	5	< 1	0.01	1	150	----	139	0.01	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	Std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
105159	Dup1	01	5.43	1.00	3.71	855	3	0.18	1	360	44	32	0.08	21	< 10	2050
	Orig1	01	5.38	1.00	3.70	845	4	0.14	6	320	42	32	0.08	20	< 10	2030
105223	Dup2	01	2.72	3.10	0.85	225	15	0.16	33	710	280	71	0.17	207	< 10	1950
	Orig2	01	2.71	3.17	0.85	235	14	0.16	36	740	270	72	0.18	212	< 10	1920

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9628774

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9628774

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 2-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	89	Geochem ring to approx 150 mesh
226	89	0-3 Kg crush and split
3202	89	Rock - save entire reject
285	89	ICP - HF digestion charge
287	89	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	89	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	89	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	89	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	89	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	89	Ag ppm: 24 element, rock & core	AAS	0.2	200
573	89	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	89	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	89	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	89	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	89	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	89	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	89	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	89	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	89	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	89	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	89	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	89	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	89	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	89	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	89	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	89	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	89	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	89	Pb ppm: 24 element, rock & core	AAS	2	10000
582	89	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	89	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	89	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	89	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	89	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

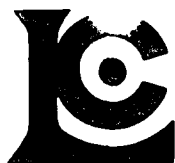
Page 1-A
Total 3
Certificate Date: 02-SEP-96
Invoice No. : 19628774
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9628774

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105159	205 226	15	14	3.8	170	1.2	5.58	3030	0.5	2	0.84	9.0	10	59	492
105160	205 226	5	4	1.2	140	2.6	5.64	3020	0.5	16	0.73	8.5	11	58	105
105161	205 226	< 5	4	2.4	10	1.6	6.33	730	< 0.5	30	1.40	1.5	15	46	102
105162	205 226	10	18	15.0	30	6.4	7.30	770	< 0.5	386	1.29	0.5	22	55	179
105163	205 226	< 5	6	1.6	10	0.4	5.60	1320	< 0.5	50	0.50	< 0.5	13	45	44
105164	205 226	10	6	4.0	230	0.4	7.73	1230	1.5	< 2	0.98	2.5	11	73	96
105165	205 226	5	8	1.4	< 10	< 0.2	7.96	960	2.0	< 2	0.96	< 0.5	9	57	30
105166	205 226	< 5	14	0.8	10	< 0.2	6.85	3780	2.0	< 2	0.55	< 0.5	6	82	31
105167	205 226	< 5	8	1.6	10	0.4	7.66	3030	1.5	26	0.50	< 0.5	6	55	24
105168	205 226	< 5	4	0.6	10	< 0.2	7.19	2580	1.5	< 2	0.36	< 0.5	6	96	17
105169	205 226	< 5	2	0.4	10	< 0.2	7.31	2910	1.5	< 2	0.61	< 0.5	6	75	28
105170	205 226	15	30	25	470	1.0	2.21	130	2.0	< 2	0.81	0.5	4	295	51
105171	205 226	20	38	34	260	0.8	2.58	120	2.5	< 2	1.16	0.5	4	209	52
105172	205 226	45	114	92	760	2.4	2.58	110	3.5	< 2	2.89	8.0	5	279	134
105173	205 226	55	52	40	300	1.6	2.36	120	3.0	< 2	0.83	0.5	4	226	69
105174	205 226	25	26	16.0	120	0.4	1.39	300	0.5	< 2	>25.0	< 0.5	5	40	28
105175	205 226	160	170	72	520	4.0	2.59	120	4.0	< 2	7.69	3.5	5	270	122
105176	205 226	130	104	27	370	3.6	2.29	120	2.5	< 2	3.85	2.0	4	301	85
105177	205 226	5	24	1.2	20	< 0.2	7.55	840	2.0	< 2	0.45	< 0.5	7	67	27
105178	205 226	< 5	46	1.0	< 10	< 0.2	8.28	1270	2.5	< 2	1.47	< 0.5	7	117	10
105179	205 226	< 5	1	0.8	10	< 0.2	8.56	3640	2.5	< 2	0.41	< 0.5	5	50	8
105180	205 226	< 5	1	0.8	< 10	< 0.2	7.77	3190	2.5	< 2	0.89	< 0.5	3	127	4
105181	205 226	< 5	8	1.6	10	< 0.2	7.51	350	2.5	< 2	0.95	< 0.5	4	56	4
105182	205 226	< 5	6	2.4	10	< 0.2	7.12	360	2.5	< 2	1.28	< 0.5	3	112	4
105183	205 226	< 5	6	2.0	10	< 0.2	7.04	310	2.5	< 2	0.87	< 0.5	3	61	4
105184	205 226	< 5	10	3.8	10	< 0.2	7.19	190	3.0	< 2	1.01	< 0.5	4	105	4
105185	205 226	< 5	10	3.2	20	< 0.2	8.22	200	4.0	< 2	1.26	< 0.5	4	96	5
105186	205 226	< 5	16	2.2	10	< 0.2	7.52	200	4.0	< 2	1.25	< 0.5	4	192	4
105187	205 226	< 5	14	4.0	40	< 0.2	8.37	290	3.5	< 2	1.44	< 0.5	5	90	7
105188	205 226	< 5	16	3.0	160	< 0.2	7.56	210	3.0	< 2	1.84	< 0.5	4	129	6
105189	205 226	< 5	46	11.5	1010	< 0.2	5.39	160	2.5	< 2	4.75	6.5	4	176	21
105190	205 226	< 5	26	5.2	250	< 0.2	8.45	180	3.5	< 2	1.91	1.0	5	134	8
105191	205 226	< 5	22	7.8	270	< 0.2	6.90	240	2.5	< 2	1.81	0.5	4	113	11
105192	205 226	< 5	24	13.0	1070	< 0.2	6.93	260	3.0	< 2	1.09	3.5	4	157	14
105193	205 226	< 5	54	40	1920	1.8	6.19	150	3.5	< 2	1.20	10.0	5	184	44
105194	205 226	< 5	4	5.6	160	< 0.2	6.89	280	2.0	< 2	2.14	< 0.5	4	169	7
105195	205 226	< 5	2	4.2	70	< 0.2	7.35	2610	2.0	< 2	0.83	< 0.5	5	127	8
105196	205 226	< 5	8	6.8	80	< 0.2	6.12	200	1.5	< 2	0.40	< 0.5	4	207	10
105197	205 226	< 5	6	5.0	50	< 0.2	8.06	280	2.0	< 2	0.69	< 0.5	6	112	9
105222	205 226	25	20	10.0	60	0.4	4.74	160	2.5	< 2	1.10	< 0.5	5	176	32

CERTIFICATION:

Hart Buehler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page : 1-B
 Total : 3
 Certificate Date: 02-SEP-96
 Invoice No. : I9628774
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628774

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105159	205 226	5.38	1.00	3.70	845	4	0.14	6	320	42	32	0.08	20	< 10	2030
105160	205 226	5.48	1.00	3.34	845	3	0.12	3	360	340	24	0.09	20	< 10	2100
105161	205 226	7.34	1.11	3.83	1275	2	0.15	4	390	112	45	0.09	21	< 10	374
105162	205 226	10.60	0.81	4.28	1570	1	0.22	5	410	350	39	0.09	23	< 10	326
105163	205 226	7.58	0.56	3.66	900	3	0.14	2	340	32	15	0.07	18	< 10	160
105164	205 226	4.71	2.44	3.33	815	3	0.20	5	390	50	34	0.13	37	< 10	436
105165	205 226	3.23	2.92	2.96	615	2	0.20	3	450	6	34	0.15	27	< 10	82
105166	205 226	2.18	2.55	2.37	445	3	0.16	1	400	4	24	0.13	21	< 10	60
105167	205 226	3.29	2.40	3.56	585	1	0.22	4	440	20	21	0.13	24	< 10	98
105168	205 226	3.37	2.13	3.45	510	4	0.17	2	390	4	17	0.12	21	< 10	90
105169	205 226	3.05	2.48	3.02	525	3	0.17	3	410	4	26	0.12	23	< 10	92
105170	205 226	1.86	1.02	0.26	215	4	0.02	45	190	10	51	0.08	107	< 10	310
105171	205 226	2.16	1.14	0.30	210	4	0.03	48	330	12	66	0.09	132	< 10	140
105172	205 226	2.12	0.91	0.28	340	35	0.02	111	5460	44	185	0.10	562	< 10	1090
105173	205 226	2.44	0.96	0.26	135	4	0.04	55	800	18	50	0.09	134	< 10	122
105174	205 226	0.96	0.42	0.35	2650	2	0.04	11	560	16	1275	0.05	42	< 10	108
105175	205 226	2.37	1.02	0.34	685	27	0.03	127	4970	40	302	0.10	437	< 10	618
105176	205 226	2.22	0.96	0.26	405	8	0.02	69	2980	48	175	0.09	212	< 10	382
105177	205 226	3.72	2.53	3.50	410	4	0.21	< 1	430	8	25	0.13	24	< 10	108
105178	205 226	3.99	2.72	4.63	560	4	0.29	3	410	10	65	0.13	26	< 10	110
105179	205 226	2.55	2.65	4.30	235	3	0.26	3	470	4	23	0.16	27	< 10	88
105180	205 226	1.94	2.38	4.31	215	4	0.26	4	440	< 2	33	0.17	25	< 10	60
105181	205 226	1.82	2.72	2.99	140	2	0.21	< 1	420	8	35	0.16	22	< 10	30
105182	205 226	1.69	2.69	3.05	140	3	0.20	3	390	10	39	0.17	20	< 10	28
105183	205 226	1.69	2.70	2.96	90	2	0.19	3	400	10	34	0.16	21	< 10	20
105184	205 226	1.74	3.23	2.38	95	3	0.20	4	410	14	45	0.15	21	< 10	24
105185	205 226	1.96	4.28	2.74	125	3	0.24	1	430	10	63	0.18	23	< 10	34
105186	205 226	1.81	3.84	2.25	130	2	0.21	3	350	12	54	0.15	21	< 10	28
105187	205 226	1.96	4.12	1.62	140	2	0.22	2	520	8	56	0.19	24	< 10	28
105188	205 226	1.79	3.69	1.16	155	3	0.20	5	590	14	68	0.19	33	< 10	76
105189	205 226	1.65	2.70	0.72	255	15	0.12	29	1180	36	217	0.14	285	< 10	424
105190	205 226	1.79	4.25	1.20	165	4	0.22	10	550	24	78	0.21	91	< 10	136
105191	205 226	1.56	3.15	0.76	135	5	0.16	9	570	28	72	0.18	70	< 10	66
105192	205 226	1.62	3.40	0.96	165	7	0.16	15	370	40	48	0.13	121	< 10	246
105193	205 226	2.94	2.91	0.74	185	19	0.15	58	1640	48	67	0.15	570	< 10	648
105194	205 226	1.58	3.11	0.60	345	2	0.15	6	620	20	264	0.16	38	< 10	36
105195	205 226	1.08	2.74	0.34	110	3	0.22	9	760	34	90	0.15	48	< 10	26
105196	205 226	2.03	2.48	0.15	65	4	0.18	19	790	54	66	0.14	105	< 10	36
105197	205 226	1.33	3.15	0.21	125	1	0.27	6	790	28	104	0.20	41	< 10	24
105222	205 226	1.72	2.40	0.62	235	8	0.09	27	1010	46	52	0.13	178	< 10	74

CERTIFICATION: *David B. ...*



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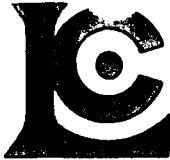
Page 2-A
 Total 3
 Certificate Date: 02-SEP-96
 Invoice No.: 19628774
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628774

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105223	205 226	90	52	24	1450	5.6	6.68	230	3.0	< 2	1.40	18.0	5	242	75
105224	205 226	35	50	26	430	3.8	3.19	90	2.0	< 2	1.00	2.5	4	288	79
105225	205 226	140	160	44	7010	7.0	5.96	330	2.5	< 2	0.87	19.5	4	228	142
105226	205 226	415	282	250	1700	67.0	3.02	90	4.5	< 2	1.10	16.5	5	274	843
105227	205 226	85	2	5.4	190	22.0	5.70	270	< 0.5	< 2	0.91	5.0	16	76	7420
105228	205 226	25	2	4.2	90	3.6	5.71	860	< 0.5	< 2	0.70	1.5	16	84	5670
105229	205 226	< 5	30	4.8	< 10	< 0.2	5.79	1620	< 0.5	< 2	0.53	< 0.5	10	110	463
105230	205 226	< 5	46	2.4	< 10	< 0.2	6.03	1050	< 0.5	< 2	0.92	< 0.5	9	76	43
105231	205 226	< 5	28	3.6	10	< 0.2	5.74	1180	< 0.5	< 2	0.58	< 0.5	9	59	30
105232	205 226	< 5	14	3.4	< 10	< 0.2	7.11	1260	< 0.5	< 2	1.32	< 0.5	10	62	23
105233	205 226	< 5	8	1.4	20	< 0.2	7.77	2350	1.0	< 2	2.96	< 0.5	10	67	17
105234	205 226	< 5	20	1.6	< 10	< 0.2	7.55	3280	1.5	< 2	3.94	< 0.5	7	70	16
105235	205 226	< 5	20	1.0	< 10	< 0.2	6.61	2270	1.5	< 2	1.06	< 0.5	6	79	12
105236	205 226	< 5	22	1.6	< 10	0.4	7.05	2150	1.5	< 2	0.59	< 0.5	5	130	20
105237	205 226	< 5	1	0.6	< 10	< 0.2	7.68	2060	1.5	< 2	0.57	< 0.5	5	74	14
105238	205 226	< 5	1	1.0	30	< 0.2	7.53	1680	1.5	< 2	0.66	< 0.5	5	74	54
105239	205 226	< 5	4	1.6	< 10	< 0.2	7.80	1550	1.0	< 2	0.78	< 0.5	5	74	35
105240	205 226	< 5	8	1.4	30	< 0.2	7.14	1840	1.5	< 2	0.60	< 0.5	4	95	30
105241	205 226	< 5	8	14.0	900	< 0.2	7.15	1990	1.5	< 2	0.76	12.5	4	67	65
105242	205 226	10	2	9.0	1330	0.4	7.69	2270	1.5	< 2	0.92	11.5	4	82	57
105243	205 226	< 5	1	1.0	< 10	< 0.2	6.75	1950	1.5	< 2	0.48	< 0.5	4	99	13
105244	205 226	< 5	4	1.4	80	< 0.2	7.40	1030	2.5	< 2	0.85	< 0.5	4	105	4
105245	205 226	< 5	8	1.6	50	< 0.2	7.23	210	3.0	< 2	0.98	< 0.5	4	137	2
105246	205 226	< 5	12	1.8	140	< 0.2	7.00	260	2.5	< 2	1.10	< 0.5	3	96	2
105247	205 226	< 5	1	1.6	30	< 0.2	6.86	370	2.5	< 2	0.95	< 0.5	3	108	1
105248	205 226	< 5	1	0.8	20	< 0.2	7.00	1380	2.5	< 2	1.06	< 0.5	3	75	< 1
105249	205 226	< 5	2	0.4	80	< 0.2	7.40	1740	2.5	< 2	0.98	< 0.5	4	39	12
105250	205 226	< 5	1	0.2	40	< 0.2	9.23	2040	2.0	< 2	0.92	< 0.5	4	56	66
105251	205 226	< 5	342	2.8	290	1.2	7.40	270	2.0	< 2	2.51	1.0	6	47	56
105252	205 226	10	38	16.0	2890	2.0	5.61	260	1.5	< 2	4.80	19.5	4	133	151
105253	205 226	5	22	4.0	430	0.8	6.23	240	1.5	< 2	5.95	5.0	6	136	191
105254	205 226	< 5	1	0.8	760	< 0.2	7.03	2450	1.0	< 2	4.54	26.5	6	87	85
105255	205 226	< 5	2	0.8	190	< 0.2	7.31	3170	1.5	< 2	2.66	5.0	5	98	44
105256	205 226	< 5	1	2.0	350	< 0.2	7.10	420	2.5	< 2	3.02	3.5	4	124	24
105257	205 226	< 5	20	5.0	130	< 0.2	7.16	190	2.5	< 2	2.09	1.0	3	191	14
105258	205 226	< 5	1	1.2	< 10	< 0.2	7.21	2030	2.0	< 2	0.91	< 0.5	8	105	15
105259	205 226	< 5	1	1.0	< 10	< 0.2	6.57	1230	0.5	< 2	0.60	< 0.5	11	62	15
105260	205 226	15	4	5.0	160	1.4	9.01	2480	2.5	< 2	0.43	1.0	7	93	30
105261	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105262	205 226	< 5	2	2.4	< 10	< 0.2	7.36	1600	2.5	< 2	0.52	< 0.5	3	52	12

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 2-B
 Total Pages: 3
 Certificate Date: 02-SEP-96
 Invoice No.: 19628774
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628774

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105223	205 226	2.71	3.17	0.85	235	14	0.16	36	740	270	72	0.18	212	< 10	1920
105224	205 226	2.89	1.45	0.42	160	7	0.08	51	540	42	50	0.10	143	< 10	306
105225	205 226	2.31	1.49	0.27	140	38	0.20	92	850	130	149	0.12	640	< 10	1360
105226	205 226	4.02	1.17	0.30	115	66	0.07	145	2040	400	68	0.10	1010	< 10	1710
105227	205 226	8.63	0.60	3.36	815	3	0.15	4	350	76	36	0.08	21	< 10	704
105228	205 226	8.62	0.52	3.74	900	1	0.22	2	310	36	27	0.07	15	< 10	362
105229	205 226	5.79	1.10	3.11	780	3	0.17	5	300	22	22	0.08	15	< 10	136
105230	205 226	7.24	0.81	3.62	1020	3	0.18	4	320	14	25	0.06	17	< 10	164
105231	205 226	5.56	0.99	3.37	780	2	0.18	4	310	20	19	0.08	14	< 10	118
105232	205 226	6.93	1.09	4.93	970	4	0.26	3	400	16	34	0.10	18	< 10	184
105233	205 226	4.94	2.10	5.14	1170	2	0.30	5	340	24	75	0.13	31	< 10	212
105234	205 226	3.76	2.75	3.28	1190	3	0.25	2	280	6	127	0.12	44	< 10	82
105235	205 226	3.07	2.24	3.01	580	3	0.22	< 1	360	6	41	0.12	18	< 10	108
105236	205 226	3.05	2.45	2.96	490	3	0.24	4	370	20	28	0.12	19	< 10	104
105237	205 226	3.20	2.36	3.51	455	3	0.25	2	390	4	24	0.12	21	< 10	82
105238	205 226	3.58	1.98	3.84	390	3	0.24	2	400	10	22	0.11	21	< 10	188
105239	205 226	4.08	1.94	4.18	375	3	0.27	4	440	8	24	0.12	25	< 10	242
105240	205 226	2.43	2.31	2.52	275	3	0.22	< 1	400	16	24	0.13	21	< 10	162
105241	205 226	2.25	2.40	2.51	275	3	0.23	3	380	34	25	0.14	20	< 10	1700
105242	205 226	2.06	2.64	2.37	265	4	0.25	4	420	28	31	0.14	21	< 10	1700
105243	205 226	1.67	2.43	1.89	170	3	0.20	6	350	10	28	0.13	17	< 10	60
105244	205 226	1.68	2.96	2.18	190	3	0.24	4	380	26	56	0.14	17	< 10	72
105245	205 226	1.68	3.24	1.76	165	4	0.23	1	330	16	42	0.15	17	< 10	40
105246	205 226	1.62	2.99	1.93	140	2	0.21	5	340	20	39	0.15	16	< 10	50
105247	205 226	1.54	2.87	2.12	140	3	0.19	3	310	30	35	0.14	16	< 10	40
105248	205 226	1.61	1.74	2.48	200	2	0.20	4	340	20	37	0.14	18	< 10	60
105249	205 226	1.79	2.74	2.76	360	1	0.21	3	390	56	36	0.13	21	< 10	150
105250	205 226	3.95	3.09	4.47	700	5	0.29	4	570	130	40	0.16	28	< 10	242
105251	205 226	2.75	2.67	1.89	510	1	0.24	4	580	144	123	0.14	42	< 10	218
105252	205 226	1.45	2.44	0.62	325	5	0.28	13	1410	1440	170	0.09	174	< 10	3060
105253	205 226	3.11	2.84	1.04	820	9	0.17	25	4130	300	212	0.12	227	< 10	568
105254	205 226	3.97	2.81	1.11	1430	2	0.25	5	610	140	180	0.14	18	< 10	3580
105255	205 226	2.17	2.08	1.13	700	4	0.23	7	750	200	124	0.21	43	< 10	912
105256	205 226	1.81	3.32	1.57	570	5	0.19	19	740	120	141	0.14	109	< 10	526
105257	205 226	1.67	3.13	0.72	300	4	0.16	14	710	52	101	0.12	95	< 10	132
105258	205 226	3.93	1.77	4.43	640	4	0.24	1	340	< 2	31	0.10	17	< 10	108
105259	205 226	5.24	1.22	4.04	585	3	0.21	1	300	< 2	19	0.07	15	< 10	94
105260	205 226	3.14	2.84	3.13	360	3	0.28	6	430	30	27	0.13	28	< 10	250
105261	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105262	205 226	1.86	2.47	2.34	370	2	0.22	4	340	80	23	0.12	16	< 10	70

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

PROJECT: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 1 of 3-A
Total Pages: 3
Certificate Date: 02-SEP-96
Invoice No.: 19628774
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9628774

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105263	205 226	< 5	1	2.4	100	< 0.2	6.91	1460	2.5	< 2	0.77	1.0	3	56	15
105264	205 226	< 5	2	0.8	50	< 0.2	6.68	1330	2.0	< 2	1.36	0.5	4	88	12
105265	205 226	< 5	1	0.6	< 10	< 0.2	6.91	1260	2.0	< 2	1.29	< 0.5	4	46	12
105266	205 226	< 5	1	1.0	< 10	< 0.2	7.61	1290	2.5	< 2	1.05	< 0.5	5	86	14
105267	205 226	< 5	2	0.8	< 10	< 0.2	7.27	1230	2.5	< 2	0.57	< 0.5	4	71	13
105268	205 226	< 5	1	1.0	< 10	< 0.2	6.99	1020	2.0	< 2	0.92	< 0.5	6	90	16
105269	205 226	< 5	1	0.2	30	< 0.2	7.01	1170	2.0	< 2	1.36	< 0.5	4	48	17
105270	205 226	< 5	1	0.6	110	< 0.2	7.10	1180	2.0	< 2	1.25	2.5	3	95	18
105271	205 226	< 5	2	< 0.2	< 10	< 0.2	7.86	1440	2.5	< 2	0.93	< 0.5	3	41	4
105272	205 226	< 5	1	0.4	40	< 0.2	10.90	1930	2.0	< 2	2.83	1.5	7	68	47

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 1 of 3-B
Total F : 3
Certificate Date: 02-SEP-96
Invoice No. : 19628774
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9628774

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105263	205 226	1.67	2.49	2.09	450	3	0.21	3	340	66	26	0.11	15	< 10	328
105264	205 226	1.72	2.46	1.37	380	4	0.20	3	330	76	38	0.10	14	< 10	202
105265	205 226	1.63	2.56	1.53	410	3	0.21	5	350	80	37	0.11	15	< 10	80
105266	205 226	2.03	2.77	1.89	410	4	0.23	3	370	190	35	0.12	18	< 10	86
105267	205 226	1.74	2.72	1.83	320	3	0.19	3	360	56	23	0.12	16	< 10	74
105268	205 226	2.77	1.85	2.38	495	1	0.18	1	370	68	28	0.11	17	< 10	116
105269	205 226	1.88	2.57	1.74	400	2	0.19	3	390	32	41	0.12	16	< 10	120
105270	205 226	1.78	2.37	1.94	475	3	0.21	2	330	192	36	0.13	16	< 10	432
105271	205 226	2.02	2.79	2.71	515	2	0.22	< 1	430	60	37	0.13	20	< 10	96
105272	205 226	5.06	3.44	4.63	1360	4	0.36	6	1030	52	86	0.21	65	< 10	356

CERTIFICATION:

Hunter B. Baker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 9 0 0 5

BILLING INFORMATION

Date: 24-SEP-96
Project: WOLVERINE
P.O. No.: 6410
Account: GP W

Comments: ATTN:ANDREW TURNER

Billing: For analysis performed on
Certificate A9629005

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	208 - Assay ring to approx 150 mesh A-413 XRF - Basic W.R.A. Whole Rock add on suite 0-3 Kg crush and split	2.50 21.00 9.00 2.60		105.30
Total Cost \$				105.30
Client Discount (25%) \$				<u>-26.33</u>
Net Cost \$				78.97
(Reg# R100938885) GST \$				<u>5.53</u>
TOTAL PAYABLE (CDN) \$				84.50



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629005

Comments: ATTN:TERRY TUCKER

CERTIFICATE	A9629005
--------------------	-----------------

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6410

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	3	Assay ring to approx 150 mesh
226	3	0-3 Kg crush and split
3202	3	Rock - save entire reject

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
902	3	Al2O3 %: XRF	XRF	0.01	100.00
906	3	CaO %: XRF	XRF	0.01	100.00
2590	3	Cr2O3 %: XRF	XRF	0.01	100.00
903	3	Fe2O3 %: XRF	XRF	0.01	100.00
908	3	K2O %: XRF	XRF	0.01	100.00
905	3	MgO %: XRF	XRF	0.01	100.00
1989	3	MnO %: XRF	XRF	0.01	100.00
907	3	Na2O %: XRF	XRF	0.01	100.00
909	3	P2O5 %: XRF	XRF	0.01	100.00
901	3	SiO2 %: XRF	XRF	0.01	100.00
904	3	TiO2 %: XRF	XRF	0.01	100.00
910	3	LOI %: XRF	XRF	0.01	100.00
2540	3	Total %	CALCULATION	0.01	105.00
2891	3	Ba ppm: XRF	XRF	5	50000
2067	3	Rb ppm: XRF	XRF	2	50000
2898	3	Sr ppm: XRF	XRF	2	50000
2973	3	Nb ppm: XRF	XRF	2	50000
2978	3	Zr ppm: XRF	XRF	3	50000
2974	3	Y ppm: XRF	XRF	2	50000



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN:TERRY TUCKER

Page: 1
Total: 1
Certificate Date: 24-SEP-96
Invoice No.: 19629005
P.O. Number: 6410
Account: GP W

CERTIFICATE OF ANALYSIS

A9629005

SAMPLE	PREP		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
	CODE		XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	%	ppm	ppm	ppm	ppm	ppm	ppm
171526	208	226	14.02	7.53	< 0.01	10.70	4.17	1.58	0.16	1.70	0.72	46.73	2.88	8.55	98.74	1320	108	182	64	234	24
171527	208	226	14.35	8.65	0.01	7.72	3.41	5.65	0.17	1.70	0.16	44.27	0.76	12.08	98.93	1085	88	132	18	63	18
171528	208	226	15.80	8.73	0.01	9.21	3.04	5.77	0.12	0.93	0.26	43.21	1.04	9.90	98.02	1640	84	164	28	99	20

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 9 2 1 1

BILLING INFORMATION

Date: 22-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9629211

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 389 - Ag con g/t	0.00 45.00	45.00	45.00
Total Cost \$				45.00
Client Discount (25%) \$				-11.25
Net Cost \$				33.75
(Reg# R100938885) GST \$				2.36
TOTAL PAYABLE (CDN) \$				36.11



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629211

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9629211

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
389	1	Ag g/t: Concentrate	FA-AAS/GRAV	0.3	1000.0



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

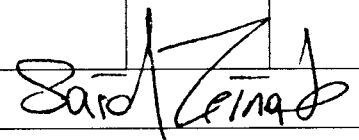
Page Number : 1
Total : 1
Certificate Date: 21-AUG-96
Invoice No. : I9629211
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9629211

SAMPLE	PREP CODE		Ag con g/t									
105500	244	--	1101.0									

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 9 2 3 9

BILLING INFORMATION

Date: 22-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9629239

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t	0.00 10.50	10.50	21.00

Total Cost \$	21.00
Client Discount (25%) \$	-5.25
Net Cost \$	15.75
(Reg# R100938885) GST \$	1.10
TOTAL PAYABLE (CDN) \$	16.85

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629239

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9629239

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	2	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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Page 1 of 1
Total : 1
Certificate Date: 21-AUG-96
Invoice No. : I9629239
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629239

SAMPLE	PREP CODE	Ag FA g/t									
175051	244 --	2190									
175058	244 --	463									

CERTIFICATION: *Terry Tucker*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 9 2 8 2

BILLING INFORMATION

Date: 27-AUG-96
Project: WOLVERINE
P.O. No.:
Account: GP W
Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9629282

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42

COPY



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PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629282

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9629282

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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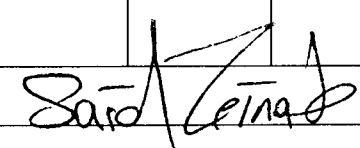
WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
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Page: 1 of 1
Total F: 1
Certificate Date: 27-AUG-96
Invoice No.: I9629282
P.O. Number:
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629282

SAMPLE	PREP CODE	Zn %									
171083	244 --	1.25									

CERTIFICATION: 



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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 9 7 1 1

BILLING INFORMATION

Date: 6-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9629711

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
118	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	4112.30
				Total Cost \$ 4112.30
				Client Discount (25%) \$ <u>-1028.08</u>
				Net Cost \$ 3084.22
				(Reg# R100938885) GST \$ <u>215.90</u>
				TOTAL PAYABLE (CDN) \$ 3300.12



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P# 1-A
 Tot QC 2
 Date: 06-SEP-96
 Invoice #: I9629711
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9629711

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	1	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	2	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	----	----	----	----	----	6.73	760	2.0	6	2.23	0.5	20	138	216
G90-TOT	std2	1	----	----	----	----	----	7.15	800	2.0	10	2.26	0.5	20	139	225
G90-TOT	std1	2	----	----	----	----	----	6.83	770	2.0	6	2.19	< 0.5	19	135	214
G90-TOT	std2	2	----	----	----	----	----	6.98	790	2.0	8	2.23	1.0	20	143	222
G90-TOT	std1	3	----	----	----	----	----	7.05	770	2.0	4	2.26	1.0	19	144	221
G90-TOT	std2	3	----	----	----	----	----	7.00	790	2.0	6	2.26	1.0	19	142	218
CHEMEX MEAN	---	---	----	----	----	----	----	7.07	766	0.9	5	2.12	0.9	19	141	221
GEO-90	std1	1	----	62	8.2	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	60	8.2	200	3.0	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	62	8.2	220	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	64	8.2	200	2.8	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	60	7.8	180	2.6	----	----	----	----	----	----	----	----	----
GEO-90	std2	3	----	60	8.2	190	3.0	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	61	7.7	189	3.0	----	----	----	----	----	----	----	----	----
NG-94	std2	1	335	----	----	----	----	----	----	----	----	----	----	----	----	----
NG-94	std1	3	315	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	3	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.32	30	< 0.5	< 2	0.03	< 0.5	< 1	8	1	1
SIO2-T3	Blnk	2	----	----	----	----	0.30	30	< 0.5	< 2	0.03	< 0.5	< 1	< 1	< 1	1
SIO2-T3	Blnk	3	----	----	----	----	0.28	30	< 0.5	< 2	0.02	< 0.5	< 1	6	1	1
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	5	2
WC-96	std1	2	250	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	3	285	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pp
Tot QC
Date:
Invoice #:
P.O. #:

1-B
2
06-SEP-96
19629711
6406
GP W

QC DATA OF CERTIFICATE

A9629711

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G90-TOT	std1	1	3.93	1.72	0.99	1065	8	1.75	77	1130	----	320	0.35	109	< 10	240
G90-TOT	std2	1	4.01	1.78	1.02	1085	8	1.80	80	1160	----	327	0.34	110	10	242
G90-TOT	std1	2	3.84	1.67	0.98	1040	9	1.74	76	1110	----	316	0.33	105	10	234
G90-TOT	std2	2	3.94	1.72	1.01	1060	9	1.82	77	1120	----	329	0.34	108	10	238
G90-TOT	std1	3	3.97	1.71	1.02	1060	8	1.79	78	1140	----	327	0.35	110	10	244
G90-TOT	std2	3	3.97	1.75	1.01	1070	7	1.81	76	1140	----	331	0.35	111	10	240
CHEMEX MEAN	---	---	3.98	1.76	1.00	1015	7	1.74	76	1120	----	320	0.34	103	< 10	246
GEO-90	std1	1	----	----	----	----	----	----	----	----	192	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	200	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	190	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	192	----	----	----	----	----
GEO-90	std1	3	----	----	----	----	----	----	----	----	194	----	----	----	----	----
GEO-90	std2	3	----	----	----	----	----	----	----	----	190	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	195	----	----	----	----	----
NG-94	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NG-94	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	3	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.07	0.08	0.01	5	< 1	0.01	< 1	160	----	139	0.01	4	< 10	< 2
SIO2-T3	Blnk	2	0.06	0.06	0.01	5	< 1	0.01	3	150	----	135	0.01	3	< 10	< 2
SIO2-T3	Blnk	3	0.05	0.06	0.01	< 5	< 1	0.01	1	150	----	134	0.01	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
WC-96	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

[Signature]



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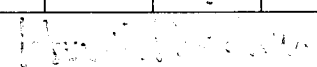
WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P: 2-A
Tot Qc: 2
Date: 06-SEP-96
Invoice #: 19629711
P.O. #: 6406
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9629711

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171328	Dup1-01 Orig1-01	20 20	2 2	0.6 0.4	80 100	< 0.2 < 0.2	4.38 4.23	8220 8170	1.5 1.0	< 2 < 2	0.03 0.02	< 0.5 < 0.5	10 11	203 191	71 74
171368	Dup2-01 Orig2-01	< 5 < 5	4 4	< 0.2 0.2	40 40	< 0.2 < 0.2	3.18 3.27	5140 5290	0.5 1.0	< 2 2	0.11 0.11	< 0.5 < 0.5	8 8	140 148	66 67
171408	Dup3-01 Orig3-01	< 5 10	2 2	0.4 0.6	40 40	< 0.2 < 0.2	2.87 2.86	170 270	0.5 0.5	2 2	0.65 0.65	< 0.5 < 0.5	6 7	309 292	59 59

CERTIFICATION: 



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 2-B
 Tot QC 2
 Date: 06-SEP-96
 Invoice #: 19629711
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9629711

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171328	Dup1-01	3.33	1.66	0.39	2590	3	0.07	87	470	< 2	50	0.24	132	< 10	136
	Orig1-01	3.58	1.60	0.38	2470	3	0.07	78	450	10	49	0.24	127	< 10	134
171368	Dup2-01	1.69	1.14	0.59	295	1	0.06	27	400	4	25	0.16	78	< 10	76
	Orig2-01	1.72	1.18	0.60	300	1	0.06	30	410	4	26	0.17	79	< 10	78
171408	Dup3-01	2.23	1.08	0.69	440	7	0.04	96	290	< 2	161	0.15	126	< 10	180
	Orig3-01	2.25	1.09	0.68	420	6	0.04	96	290	< 2	154	0.15	126	< 10	182

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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 VANCOUVER, BC
 V7X 1C4

A9629711

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9629711**

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 6-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	118	Geochem ring to approx 150 mesh
226	118	0-3 Kg crush and split
3202	118	Rock - save entire reject
285	118	ICP - HF digestion charge
287	118	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	118	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	118	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	118	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	118	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	118	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	118	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	118	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	118	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	118	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	118	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	118	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	118	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	118	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	118	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	118	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	118	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	118	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	118	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	118	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	118	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	118	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	118	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	118	Pb ppm: 24 element, rock & core	AAS	2	10000
582	118	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	118	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	118	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	118	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	118	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
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 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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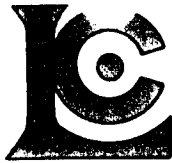
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 Certificate Date: 06-SEP-96
 Invoice No.: I9629711
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629711

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171328	205 226	20	2	0.4	100	< 0.2	4.23	8170	1.0	< 2	0.02	< 0.5	11	191	74
171329	205 226	5	1	0.2	30	< 0.2	2.37	5350	0.5	< 2	0.01	< 0.5	2	95	53
171330	205 226	< 5	4	0.4	80	< 0.2	2.92	6780	0.5	< 2	0.01	< 0.5	2	141	44
171331	205 226	< 5	2	4.4	40	< 0.2	3.39	6230	0.5	< 2	0.01	< 0.5	3	130	132
171332	205 226	< 5	1	0.4	30	< 0.2	4.71	9790	1.5	10	0.03	< 0.5	7	129	80
171333	205 226	215	4	0.6	70	< 0.2	3.54	6810	0.5	< 2	0.03	< 0.5	30	166	213
171334	205 226	< 5	2	0.4	40	< 0.2	3.15	6870	0.5	< 2	< 0.01	< 0.5	3	90	52
171335	205 226	< 5	4	0.2	20	< 0.2	2.11	5590	0.5	< 2	< 0.01	< 0.5	3	76	55
171336	205 226	< 5	2	< 0.2	20	< 0.2	2.33	5520	0.5	< 2	0.03	< 0.5	4	94	65
171337	205 226	< 5	8	< 0.2	60	< 0.2	2.19	4150	0.5	< 2	0.01	< 0.5	5	59	99
171338	205 226	< 5	12	0.2	30	< 0.2	3.48	5230	0.5	< 2	0.01	< 0.5	18	96	88
171339	205 226	< 5	4	0.2	120	< 0.2	5.42	8180	1.5	< 2	0.01	< 0.5	4	220	63
171340	205 226	< 5	2	0.2	70	< 0.2	3.75	4360	0.5	< 2	0.03	< 0.5	3	167	46
171341	205 226	< 5	4	0.2	40	< 0.2	3.39	4120	0.5	< 2	0.04	< 0.5	18	185	70
171342	205 226	< 5	6	< 0.2	20	< 0.2	2.89	3550	0.5	< 2	0.03	< 0.5	10	78	60
171343	205 226	< 5	2	0.2	30	< 0.2	3.37	4410	1.0	< 2	0.07	< 0.5	10	153	108
171344	205 226	< 5	2	0.2	30	< 0.2	5.19	4940	1.5	< 2	0.04	< 0.5	26	101	60
171345	205 226	< 5	4	0.4	70	< 0.2	4.29	250	1.5	< 2	0.09	0.5	17	175	108
171346	205 226	< 5	2	0.6	10	< 0.2	2.72	220	1.5	< 2	0.05	< 0.5	8	180	90
171347	205 226	< 5	2	0.4	360	< 0.2	2.86	210	1.5	< 2	0.08	1.5	9	184	113
171348	205 226	15	4	< 0.2	140	< 0.2	3.77	180	1.5	< 2	0.14	< 0.5	11	208	103
171349	205 226	< 5	2	< 0.2	40	< 0.2	3.37	1830	1.5	4	0.08	< 0.5	4	129	73
171350	205 226	< 5	4	< 0.2	10	< 0.2	4.04	3560	1.5	2	0.12	< 0.5	15	109	72
171351	205 226	< 5	6	< 0.2	10	< 0.2	3.63	4000	1.0	6	0.08	< 0.5	12	131	69
171352	205 226	< 5	16	0.2	< 10	< 0.2	3.67	3940	1.0	2	0.09	< 0.5	13	131	62
171353	205 226	< 5	4	0.4	30	< 0.2	3.12	3210	0.5	6	0.20	< 0.5	11	185	69
171354	205 226	< 5	12	0.2	10	< 0.2	3.26	4030	0.5	2	0.48	< 0.5	11	159	74
171355	205 226	< 5	2	< 0.2	50	< 0.2	2.76	2640	0.5	2	0.06	< 0.5	9	163	75
171356	205 226	< 5	10	< 0.2	10	< 0.2	4.35	2750	0.5	2	1.19	< 0.5	24	250	60
171357	205 226	< 5	38	0.2	< 10	< 0.2	6.85	2520	0.5	2	4.64	< 0.5	39	155	62
171358	205 226	< 5	8	< 0.2	20	< 0.2	3.41	4320	1.0	4	0.78	< 0.5	11	167	68
171359	205 226	< 5	6	0.2	20	< 0.2	2.61	4000	0.5	6	0.07	< 0.5	7	162	43
171360	205 226	< 5	4	0.2	40	< 0.2	3.14	4800	1.0	2	0.01	< 0.5	3	172	30
171361	205 226	< 5	8	0.2	20	< 0.2	3.36	4630	1.0	< 2	0.04	< 0.5	4	143	58
171362	205 226	< 5	6	0.2	20	< 0.2	2.94	4820	1.0	2	0.04	< 0.5	4	116	58
171363	205 226	< 5	6	0.2	30	< 0.2	4.60	410	2.0	< 2	0.11	< 0.5	12	123	75
171364	205 226	< 5	2	0.4	40	< 0.2	4.18	270	1.5	2	0.09	< 0.5	10	143	53
171365	205 226	< 5	6	< 0.2	10	< 0.2	3.53	1830	1.0	2	1.29	< 0.5	14	177	71
171366	205 226	25	2	2.0	70	< 0.2	4.83	2080	2.0	< 2	0.11	< 0.5	10	172	75
171367	205 226	10	6	0.2	< 10	< 0.2	3.05	880	0.5	< 2	0.08	< 0.5	11	188	93

CERTIFICATION: David Backe



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1-B
 Total: 3
 Certificate Date: 06-SEP-96
 Invoice No.: 19629711
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629711

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171328	205 226	3.58	1.60	0.38	2470	3	0.07	78	450	10	49	0.24	127	< 10	134
171329	205 226	1.23	0.84	0.20	95	< 1	0.03	16	170	< 2	10	0.12	65	< 10	42
171330	205 226	1.47	1.11	0.26	70	3	0.04	16	140	4	15	0.16	96	< 10	32
171331	205 226	3.39	1.04	0.24	75	1	0.05	65	230	< 2	15	0.13	84	< 10	152
171332	205 226	2.75	1.72	0.39	95	1	0.07	31	140	< 2	14	0.21	123	< 10	94
171333	205 226	8.13	1.11	0.29	6030	1	0.05	146	680	6	21	0.16	91	< 10	318
171334	205 226	1.97	1.17	0.28	85	1	0.05	18	180	< 2	10	0.15	84	< 10	50
171335	205 226	1.06	0.78	0.21	120	< 1	0.03	13	100	< 2	9	0.11	63	< 10	28
171336	205 226	1.17	0.81	0.39	95	< 1	0.04	31	140	< 2	12	0.13	71	< 10	66
171337	205 226	1.04	0.80	0.33	60	1	0.03	33	100	< 2	11	0.12	77	< 10	48
171338	205 226	1.95	1.34	0.74	840	1	0.05	53	280	< 2	11	0.18	71	< 10	126
171339	205 226	2.88	2.31	0.59	110	1	0.08	27	240	6	17	0.32	174	< 10	56
171340	205 226	2.54	1.23	0.32	100	2	0.05	35	410	8	47	0.22	102	< 10	88
171341	205 226	2.65	1.30	0.38	1415	3	0.05	93	360	6	19	0.20	83	< 10	150
171342	205 226	1.67	1.18	0.39	155	4	0.04	24	310	< 2	17	0.15	76	< 10	74
171343	205 226	2.01	1.43	0.57	1280	1	0.04	38	430	< 2	21	0.18	84	< 10	92
171344	205 226	2.73	1.67	0.75	370	< 1	0.42	112	350	< 2	14	0.30	97	< 10	368
171345	205 226	5.06	1.65	0.65	450	5	0.08	63	790	28	22	0.41	209	< 10	114
171346	205 226	2.91	1.28	0.27	130	2	0.05	56	380	< 2	14	0.12	139	< 10	54
171347	205 226	1.86	1.32	0.29	80	6	0.05	60	600	14	19	0.13	217	< 10	160
171348	205 226	4.43	1.62	0.43	265	2	0.07	40	1070	104	37	0.18	256	< 10	140
171349	205 226	2.60	1.50	0.57	155	12	0.05	17	530	16	15	0.14	124	< 10	102
171350	205 226	2.10	1.78	0.67	1350	1	0.07	47	350	4	26	0.20	92	< 10	86
171351	205 226	1.93	1.42	0.83	415	< 1	0.11	43	240	< 2	14	0.19	74	< 10	74
171352	205 226	2.15	1.37	0.85	880	1	0.13	34	290	< 2	21	0.20	74	< 10	62
171353	205 226	2.02	1.34	0.63	1500	4	0.07	43	480	< 2	27	0.17	82	< 10	84
171354	205 226	2.01	1.29	0.82	715	1	0.09	36	400	< 2	45	0.18	76	< 10	84
171355	205 226	2.79	0.97	0.62	1395	3	0.04	26	280	< 2	12	0.14	92	< 10	90
171356	205 226	3.55	0.69	0.84	3390	1	1.50	66	880	< 2	103	0.45	149	< 10	118
171357	205 226	6.98	0.72	2.40	1990	2	2.14	68	1290	< 2	399	0.84	293	< 10	136
171358	205 226	1.98	1.28	0.83	1075	1	0.15	38	400	< 2	39	0.18	87	< 10	74
171359	205 226	1.57	1.13	0.37	250	5	0.04	24	370	< 2	18	0.14	78	< 10	46
171360	205 226	1.85	1.47	0.37	115	4	0.05	19	290	< 2	19	0.16	90	< 10	42
171361	205 226	2.04	1.31	0.56	165	2	0.05	17	360	< 2	30	0.17	76	< 10	62
171362	205 226	1.72	1.23	0.46	140	1	0.04	15	270	4	12	0.14	91	< 10	52
171363	205 226	4.23	1.58	0.54	800	3	0.12	36	930	34	33	0.33	212	< 10	88
171364	205 226	3.37	1.45	0.49	205	3	0.10	37	490	16	18	0.17	84	< 10	120
171365	205 226	2.41	1.13	0.90	2800	4	0.59	42	460	20	156	0.21	97	< 10	80
171366	205 226	2.43	1.27	0.60	240	1	0.08	37	550	32	24	0.33	142	< 10	122
171367	205 226	1.97	1.12	0.63	350	2	0.05	42	350	< 2	20	0.14	79	< 10	76

CERTIFICATION: _____



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CERTIFICATE OF ANALYSIS A9629711

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171368	205 226	< 5	4	0.2	40	< 0.2	3.27	5290	1.0	2	0.11	< 0.5	8	148	67
171369	205 226	< 5	2	0.2	30	< 0.2	3.20	5150	1.0	< 2	0.08	< 0.5	16	65	67
171370	205 226	< 5	1	< 0.2	< 10	< 0.2	3.53	2000	0.5	< 2	0.48	< 0.5	9	132	75
171371	205 226	< 5	1	< 0.2	10	< 0.2	4.32	2110	1.5	< 2	0.08	< 0.5	9	153	86
171372	205 226	< 5	6	0.2	< 10	< 0.2	3.82	5070	1.0	2	0.10	< 0.5	12	97	94
171373	205 226	< 5	6	< 0.2	20	< 0.2	3.20	4420	0.5	2	0.06	< 0.5	11	181	69
171374	205 226	< 5	8	< 0.2	10	< 0.2	2.50	4030	0.5	< 2	0.03	< 0.5	3	136	40
171375	205 226	< 5	2	< 0.2	< 10	< 0.2	3.16	4900	0.5	2	0.06	< 0.5	12	120	80
171376	205 226	< 5	4	< 0.2	10	< 0.2	2.84	5390	0.5	< 2	0.02	< 0.5	5	137	38
171377	205 226	< 5	4	< 0.2	10	< 0.2	2.86	4920	0.5	< 2	0.04	< 0.5	10	176	77
171378	205 226	< 5	4	< 0.2	10	< 0.2	3.26	730	0.5	< 2	0.08	< 0.5	10	214	78
171379	205 226	< 5	2	< 0.2	10	< 0.2	3.28	3640	1.0	2	0.06	< 0.5	10	163	76
171380	205 226	10	6	0.2	10	< 0.2	3.48	1530	1.0	2	0.16	< 0.5	12	172	85
171381	205 226	< 5	6	< 0.2	10	< 0.2	3.22	280	1.0	4	0.06	< 0.5	11	148	71
171382	205 226	15	2	< 0.2	< 10	< 0.2	3.43	300	1.0	2	0.04	< 0.5	8	152	82
171383	205 226	95	4	< 0.2	10	< 0.2	3.34	740	1.0	< 2	0.04	< 0.5	9	180	71
171384	205 226	20	6	0.8	10	< 0.2	2.95	4150	0.5	< 2	0.03	< 0.5	8	185	72
171385	205 226	20	6	0.4	< 10	< 0.2	3.56	160	1.0	< 2	0.50	< 0.5	9	193	84
171386	205 226	10	2	0.2	< 10	< 0.2	3.17	200	0.5	6	0.60	< 0.5	8	196	81
171387	205 226	20	8	0.2	< 10	< 0.2	2.80	4250	0.5	2	0.70	< 0.5	10	175	60
171388	205 226	< 5	4	< 0.2	< 10	< 0.2	2.95	260	0.5	2	0.77	< 0.5	8	245	75
171389	205 226	< 5	2	< 0.2	< 10	< 0.2	3.16	370	0.5	2	0.44	< 0.5	8	169	78
171390	205 226	< 5	2	< 0.2	10	< 0.2	2.97	560	0.5	2	0.45	< 0.5	7	173	70
171391	205 226	< 5	2	< 0.2	< 10	< 0.2	2.93	830	0.5	6	0.31	< 0.5	7	192	74
171392	205 226	< 5	4	< 0.2	< 10	< 0.2	3.20	1620	0.5	2	0.17	< 0.5	10	128	67
171393	205 226	< 5	2	< 0.2	< 10	< 0.2	3.35	3620	1.0	2	0.20	< 0.5	15	92	40
171394	205 226	< 5	4	< 0.2	< 10	< 0.2	3.19	2010	0.5	4	1.21	< 0.5	13	98	76
171395	205 226	< 5	2	< 0.2	< 10	< 0.2	4.02	3340	1.0	2	0.44	< 0.5	15	109	85
171396	205 226	< 5	1	< 0.2	10	< 0.2	2.99	3560	0.5	6	0.12	< 0.5	10	188	80
171397	205 226	< 5	2	< 0.2	20	< 0.2	3.33	3650	1.0	4	0.38	< 0.5	12	116	81
171398	205 226	< 5	8	< 0.2	< 10	< 0.2	3.13	3360	0.5	4	0.47	< 0.5	13	122	71
171399	205 226	< 5	2	< 0.2	10	< 0.2	3.68	650	1.0	6	1.15	< 0.5	12	140	77
171400	205 226	< 5	2	0.2	10	< 0.2	3.38	330	0.5	6	2.01	< 0.5	11	255	54
171401	205 226	< 5	10	1.2	20	< 0.2	3.01	470	0.5	4	3.08	< 0.5	10	227	43
171402	205 226	< 5	12	1.4	30	< 0.2	1.65	980	< 0.5	8	7.85	< 0.5	5	266	10
171403	205 226	< 5	18	1.8	50	< 0.2	3.32	190	0.5	4	2.22	< 0.5	11	229	48
171404	205 226	< 5	12	0.4	< 10	< 0.2	4.38	2420	1.5	2	0.87	< 0.5	12	163	70
171405	205 226	< 5	4	0.4	10	< 0.2	2.82	3500	0.5	2	0.33	< 0.5	12	232	56
171406	205 226	< 5	8	0.2	10	< 0.2	4.20	6190	1.5	6	0.23	< 0.5	15	230	50
171407	205 226	< 5	6	0.4	< 10	< 0.2	3.41	850	0.5	< 2	0.63	< 0.5	9	244	66

CERTIFICATION:



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SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171368	205 226	1.72	1.18	0.60	300	1	0.06	30	410	4	26	0.17	79	< 10	78
171369	205 226	2.13	1.01	0.50	3040	1	0.04	46	210	2	30	0.18	54	< 10	116
171370	205 226	1.99	1.22	0.92	875	1	0.15	82	420	< 2	105	0.19	84	< 10	170
171371	205 226	2.33	1.51	0.70	170	4	0.10	56	400	< 2	35	0.23	119	< 10	124
171372	205 226	2.79	1.17	0.62	925	4	0.08	58	450	< 2	33	0.16	82	< 10	182
171373	205 226	1.97	1.09	0.59	960	1	0.04	38	360	< 2	25	0.15	84	< 10	106
171374	205 226	1.92	0.86	0.51	285	2	0.03	12	250	< 2	20	0.12	71	< 10	44
171375	205 226	2.54	0.94	0.55	930	1	0.06	33	290	< 2	24	0.15	78	< 10	64
171376	205 226	1.53	0.95	0.59	180	1	0.04	17	140	< 2	20	0.15	75	< 10	54
171377	205 226	1.88	0.91	0.49	1210	3	0.04	41	220	4	21	0.12	81	< 10	78
171378	205 226	2.07	1.11	0.72	240	3	0.04	50	370	< 2	41	0.15	87	< 10	94
171379	205 226	1.91	1.11	0.71	310	2	0.05	31	290	< 2	28	0.15	80	< 10	66
171380	205 226	2.06	1.04	0.85	455	1	0.12	39	320	4	50	0.16	85	< 10	70
171381	205 226	2.20	1.20	0.69	1110	2	0.05	35	290	4	36	0.13	100	< 10	64
171382	205 226	1.90	1.21	0.82	220	3	0.06	35	170	< 2	15	0.15	98	< 10	64
171383	205 226	2.05	1.16	0.72	315	1	0.05	36	220	< 2	17	0.14	82	< 10	66
171384	205 226	1.81	0.96	0.39	925	1	0.05	32	230	< 2	24	0.12	77	< 10	66
171385	205 226	2.22	1.23	0.97	1145	5	0.05	37	230	< 2	105	0.14	108	< 10	74
171386	205 226	2.13	1.11	0.94	1080	3	0.13	33	210	< 2	130	0.12	105	< 10	62
171387	205 226	1.62	0.96	0.81	770	2	0.04	31	230	< 2	81	0.11	68	< 10	56
171388	205 226	1.97	1.05	0.90	1200	3	0.21	29	200	< 2	170	0.12	95	< 10	56
171389	205 226	2.04	1.11	0.90	1025	1	0.23	33	240	< 2	119	0.13	99	< 10	62
171390	205 226	1.88	0.99	0.86	1155	1	0.20	28	160	< 2	140	0.12	87	< 10	56
171391	205 226	1.85	0.97	0.85	760	1	0.24	29	130	< 2	100	0.12	87	< 10	56
171392	205 226	1.98	1.03	0.87	1340	1	0.04	33	250	< 2	59	0.14	77	< 10	64
171393	205 226	2.09	0.96	0.69	2140	1	0.71	32	250	6	62	0.19	47	< 10	54
171394	205 226	2.00	0.65	0.99	6100	17	1.10	35	700	10	340	0.13	79	< 10	60
171395	205 226	2.54	0.99	0.98	2340	2	1.03	35	350	< 2	132	0.22	82	< 10	76
171396	205 226	1.90	1.00	0.69	1410	1	0.14	34	220	< 2	47	0.16	76	< 10	62
171397	205 226	1.91	1.19	0.85	1470	1	0.13	31	250	< 2	76	0.16	73	< 10	60
171398	205 226	1.95	1.02	0.86	1310	1	0.06	34	270	4	71	0.15	73	< 10	60
171399	205 226	2.11	1.43	1.03	1155	1	0.08	36	380	< 2	119	0.15	77	< 10	70
171400	205 226	1.95	1.41	1.01	1035	3	0.12	40	520	< 2	148	0.16	83	< 10	74
171401	205 226	1.74	1.28	0.88	415	1	0.15	30	620	< 2	207	0.15	66	< 10	64
171402	205 226	1.05	0.57	1.63	385	1	0.21	18	1160	< 2	483	0.10	47	< 10	78
171403	205 226	1.96	1.32	1.06	1140	3	0.12	37	630	< 2	145	0.17	77	< 10	96
171404	205 226	2.13	1.56	1.13	1115	7	0.19	34	310	16	82	0.14	68	< 10	96
171405	205 226	1.76	0.88	0.57	840	1	0.07	35	230	< 2	65	0.13	61	< 10	66
171406	205 226	2.44	1.26	0.82	355	2	0.12	43	290	4	53	0.17	90	< 10	84
171407	205 226	2.13	0.98	0.81	565	3	0.34	42	310	< 2	169	0.15	92	< 10	80

CERTIFICATION:

Hant Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 3-A
 Total f : 3
 Certificate Date: 06-SEP-96
 Invoice No. : 19629711
 P.O. Number : 6406
 Account : GP W

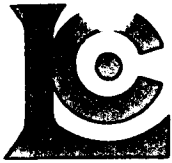
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629711

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171408	205 226	10	2	0.6	40	< 0.2	2.86	270	0.5	2	0.65	< 0.5	7	292	59
171409	205 226	10	4	0.4	10	< 0.2	2.11	310	0.5	2	0.50	< 0.5	7	298	59
171410	205 226	< 5	10	0.8	30	< 0.2	4.14	230	1.5	< 2	0.20	< 0.5	10	262	91
171411	205 226	< 5	2	0.6	30	< 0.2	3.16	210	0.5	2	0.25	< 0.5	9	248	85
171412	205 226	< 5	2	0.8	20	< 0.2	2.99	330	0.5	< 2	0.57	< 0.5	7	209	60
171413	205 226	< 5	4	0.6	90	< 0.2	4.96	430	1.5	2	0.87	< 0.5	16	218	69
171414	205 226	< 5	2	0.2	30	< 0.2	2.65	1670	0.5	< 2	0.27	< 0.5	7	229	94
171415	205 226	< 5	1	0.2	80	< 0.2	2.69	890	0.5	2	0.21	< 0.5	10	176	108
171416	205 226	< 5	2	< 0.2	10	< 0.2	3.18	1130	0.5	2	0.16	< 0.5	4	179	72
171417	205 226	< 5	1	< 0.2	90	< 0.2	2.14	1280	0.5	2	0.15	< 0.5	6	158	92
171418	205 226	< 5	1	< 0.2	10	< 0.2	2.53	1510	0.5	< 2	0.09	< 0.5	3	159	87
171419	205 226	< 5	10	1.0	30	< 0.2	2.53	360	1.0	< 2	0.03	< 0.5	6	180	98
171420	205 226	< 5	6	0.4	10	< 0.2	1.62	570	1.0	2	0.02	< 0.5	3	182	65
171421	205 226	< 5	2	0.6	70	< 0.2	2.72	590	2.5	< 2	0.08	< 0.5	5	221	57
171422	205 226	< 5	6	0.2	120	< 0.2	3.34	790	2.5	4	0.70	0.5	6	163	75
171423	205 226	< 5	2	0.8	< 10	< 0.2	3.36	130	2.5	< 2	9.68	< 0.5	9	101	62
171424	205 226	< 5	16	0.8	< 10	< 0.2	3.67	190	3.5	2	1.77	< 0.5	18	176	94
171425	205 226	< 5	10	0.8	< 10	< 0.2	3.85	90	3.5	< 2	2.43	< 0.5	11	185	56
171426	205 226	< 5	6	0.6	< 10	< 0.2	5.92	330	5.0	4	0.81	< 0.5	6	106	30
171427	205 226	< 5	2	0.2	< 10	< 0.2	3.73	1820	4.0	6	0.52	< 0.5	8	275	29
171428	205 226	< 5	2	0.4	< 10	< 0.2	5.38	100	5.5	6	1.72	< 0.5	17	199	72
171429	205 226	< 5	6	0.8	30	< 0.2	3.66	70	3.5	< 2	0.84	< 0.5	9	290	77
171430	205 226	< 5	2	0.4	30	< 0.2	6.76	600	6.0	6	1.18	0.5	6	165	14
171431	205 226	< 5	12	1.2	60	< 0.2	3.78	140	4.0	6	0.35	0.5	7	280	38
171432	205 226	< 5	2	2.0	70	9.6	3.03	230	4.5	8	0.38	3.0	8	363	57
171433	205 226	< 5	1	0.8	100	< 0.2	3.01	240	7.0	8	0.92	4.0	6	344	27
171434	205 226	< 5	1	4.4	150	< 0.2	8.91	200	25.5	2	0.87	5.5	9	141	42
171435	205 226	< 5	2	< 0.2	260	< 0.2	2.86	200	6.0	2	0.10	3.0	9	171	84
171436	205 226	< 5	42	5.2	100	< 0.2	0.59	30	1.5	< 2	0.41	< 0.5	6	234	231
171437	205 226	< 5	8	4.8	40	< 0.2	0.26	30	0.5	< 2	0.27	< 0.5	3	228	49
171438	205 226	< 5	2	< 0.2	120	< 0.2	1.88	1790	1.5	< 2	0.10	2.5	4	124	40
171439	205 226	< 5	4	0.4	290	13.2	2.52	280	2.0	< 2	0.16	0.5	6	230	90
171440	205 226	< 5	2	2.0	1640	< 0.2	2.71	240	3.0	< 2	0.82	8.5	7	192	74
171441	205 226	< 5	4	< 0.2	180	< 0.2	3.32	180	3.0	< 2	0.70	2.5	11	219	70
171442	205 226	< 5	8	4.2	260	< 0.2	2.80	210	2.5	4	0.17	1.0	6	234	71
171443	205 226	10	10	1.2	90	< 0.2	2.70	170	1.5	< 2	0.11	< 0.5	7	214	106
171444	205 226	< 5	8	0.2	50	< 0.2	1.86	290	0.5	< 2	0.11	< 0.5	6	219	71
171445	205 226	< 5	2	3.0	10	< 0.2	2.38	990	0.5	< 2	0.22	< 0.5	7	193	91

CERTIFICATION:

Terry Tucker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 3-B
 Total Pages: 3
 Certificate Date: 06-SEP-96
 Invoice No.: 19629711
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629711

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171408	205 226	2.25	1.09	0.68	420	6	0.04	96	290	< 2	154	0.15	126	< 10	182
171409	205 226	2.08	0.74	0.43	865	3	0.09	90	270	< 2	79	0.10	86	< 10	126
171410	205 226	2.89	1.55	0.70	305	4	0.09	135	200	< 2	67	0.21	184	< 10	258
171411	205 226	2.55	1.13	0.61	850	3	0.05	138	330	< 2	82	0.15	141	< 10	242
171412	205 226	1.96	1.14	0.67	390	3	0.05	80	250	< 2	175	0.15	128	< 10	146
171413	205 226	2.75	1.67	0.98	1340	5	0.42	194	360	4	311	0.22	157	< 10	300
171414	205 226	2.17	0.66	0.55	350	5	0.30	73	170	< 2	96	0.12	90	< 10	118
171415	205 226	2.12	0.81	0.51	275	9	0.09	97	160	< 2	101	0.14	98	< 10	172
171416	205 226	2.58	1.01	0.47	370	5	0.14	22	370	< 2	93	0.13	68	< 10	44
171417	205 226	2.69	0.67	0.43	280	7	0.12	78	200	< 2	86	0.11	81	< 10	178
171418	205 226	2.04	0.79	0.37	200	1	0.05	26	150	< 2	66	0.13	80	< 10	62
171419	205 226	1.77	0.75	0.27	225	8	0.04	105	130	< 2	24	0.12	102	< 10	146
171420	205 226	0.78	0.59	0.16	30	1	0.02	30	140	< 2	15	0.06	63	< 10	44
171421	205 226	1.22	1.09	0.25	200	8	0.05	46	370	24	31	0.12	103	< 10	256
171422	205 226	1.54	1.29	0.45	635	4	0.07	33	250	52	96	0.13	109	< 10	310
171423	205 226	8.96	1.29	1.22	7540	< 1	0.04	28	1170	14	850	0.12	121	< 10	56
171424	205 226	3.17	1.56	0.53	1580	1	0.05	44	1330	80	185	0.14	248	< 10	66
171425	205 226	4.35	1.65	0.83	2770	3	0.04	24	440	4	245	0.14	153	< 10	36
171426	205 226	2.47	2.64	0.81	710	< 1	0.10	22	300	10	78	0.12	66	< 10	34
171427	205 226	2.13	1.59	0.47	705	2	0.06	22	260	4	54	0.15	120	< 10	24
171428	205 226	5.08	2.34	0.88	3870	2	0.09	37	350	8	147	0.18	182	< 10	48
171429	205 226	3.92	1.49	0.53	980	3	0.06	24	360	14	72	0.13	134	< 10	30
171430	205 226	2.18	3.10	0.97	665	1	0.12	13	200	4	98	0.12	28	< 10	222
171431	205 226	1.98	1.66	0.43	345	7	0.08	34	520	60	35	0.11	127	< 10	424
171432	205 226	3.25	0.61	0.44	840	9	0.05	51	620	86	50	0.09	216	40	1030
171433	205 226	2.94	0.90	0.56	400	24	0.05	36	190	38	114	0.09	136	< 10	1095
171434	205 226	4.02	3.37	1.02	480	17	0.17	32	390	42	72	0.19	254	< 10	1820
171435	205 226	1.87	0.65	0.25	195	8	0.05	44	320	28	56	0.11	98	< 10	766
171436	205 226	9.67	0.08	0.24	1380	38	< 0.01	24	750	2	41	< 0.01	37	< 10	306
171437	205 226	10.50	< 0.01	0.14	1470	17	< 0.01	16	740	< 2	53	< 0.01	13	< 10	258
171438	205 226	0.70	0.55	0.18	130	16	0.05	20	70	68	393	0.08	53	< 10	276
171439	205 226	1.17	0.90	0.30	205	5	0.05	39	90	134	76	0.10	85	< 10	298
171440	205 226	1.71	0.81	0.29	205	4	0.10	48	240	28	181	0.11	120	< 10	2350
171441	205 226	1.76	0.93	0.41	200	8	0.08	41	190	66	315	0.13	135	< 10	516
171442	205 226	1.27	1.11	0.35	100	4	0.05	45	80	32	94	0.11	102	< 10	888
171443	205 226	1.39	1.03	0.32	80	4	0.04	65	70	4	67	0.10	115	< 10	230
171444	205 226	1.13	0.63	0.23	110	3	0.03	73	80	< 2	71	0.07	78	< 10	104
171445	205 226	1.43	0.78	0.37	240	4	0.17	64	130	< 2	137	0.10	76	< 10	70

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER I 9 6 2 9 8 4 7

BILLING INFORMATION

Date: 26-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9629847

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	284.46

Total Cost \$	284.46
Client Discount (25%) \$	-71.12
Net Cost \$	213.34
(Reg# R100938885) GST \$	14.93
TOTAL PAYABLE (CDN) \$	228.27

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629847

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9629847

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	3	RUSH Geo ring to approx 150 mesh
295	3	RUSH crush and split (0-3 Kg)
3202	3	Rock - save entire reject
285	3	ICP - HF digestion charge
287	3	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	3	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	3	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	3	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	3	Ba ppm	XRF	10	50000
444	3	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	3	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	3	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	3	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	3	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	3	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	3	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	3	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	3	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	3	Cd %: 24 element, rock & core	ICP-AES	0.01	25.0
562	3	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	3	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	3	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	3	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	3	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	3	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	3	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	3	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	3	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	3	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	3	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	3	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	3	Pb ppm: 24 element, rock & core	AAS	2	10000
582	3	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	3	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	3	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	3	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	3	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page No: 11-A
Total Pages: 1
Certificate Date: 24-SEP-96
Invoice No.: 19629847
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9629847

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) ppm	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH																	
175088	255	295	225	21.1	0.02	0.03	0.28	16100	2.63	358	120	8610	19.4	4.09	240	3.0	4	3.51	42.5	4	222
175089	255	295	115	5.7	0.01	0.01	0.06	8110	2.66	124	42	770	5.2	2.28	180	3.0	2	1.59	1.5	4	161
175090	255	295	540	54.2	0.06	0.21	0.90	11100	2.72	650	160	9700	48.4	4.27	1070	4.0	12	0.85	100.0	7	309

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.
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Page / r : 1-B
Total F : 1
Certificate Date: 24-SEP-96
Invoice No. : I9629847
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9629847

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175088	255	295	184	2.66	1.56	0.30	340	76	0.08	163	4120	170	127	0.10	1425	10	2500
175089	255	295	98	2.94	0.93	0.24	165	9	0.03	82	3790	30	65	0.08	282	< 10	524
175090	255	295	540	4.67	1.85	0.36	80	119	0.10	236	3280	1700	48	0.13	2150	10	8200

CERTIFICATION: Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 2 9 8 4 8

BILLING INFORMATION

Date: 26-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9629848

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
9	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
3202	Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1109.88

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

Total Cost \$ 1151.88
Client Discount (25% of \$1144.88) \$ -286.22

Net Cost \$ 865.66
(Reg# R100938885) GST \$ 60.60

TOTAL PAYABLE (CDN) \$ 926.26

* Not Subject to Discount

COPY



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-A
 Tot QC 1
 Date: 24-SEP-96
 Invoice #: I9629848
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

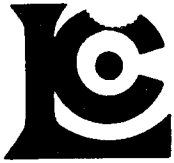
* PLEASE NOTE

QC DATA OF CERTIFICATE A9629848

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	Zn %	Ba (XRF) ppm	Spec Gr S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	0.007	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	----	----	----	----	0.008	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	0.68	3.52	----	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	----	----	0.67	3.58	----	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	----	865	----	----	----	----	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	865	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.62	178	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
		0.62	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.83	0.45	0.97	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
		----	----	0.83	0.45	0.95	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	2.61	----	----	----	----	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	2.62	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	4.0	6.05	400	< 10	< 20	3.50	< 10	390	270	
		----	----	----	----	----	----	----	----	----	----	4.3	5.72	285	< 10	< 20	3.50	< 10	364	266	

CERTIFICATION: Hart Buchler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Pr: 1-B
Tot QL: 1
Date: 24-SEP-96
Invoice #: I9629848
P.O. #: 6406
GP W

* PLEASE NOTE

QC DATA OF CERTIFICATE

A9629848

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1	10070 9440	20.4 19.35	0.9 0.8	2.90 2.70	1050 961	< 10 < 10	1.65 1.38	11920 11050	0.009 0.007	250 221	0.35 0.29	130 115	160 191

CERTIFICATION: Hunt/Buchler

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9629848

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9629848

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	9	RUSH Assay ring approx 150 mesh
295	9	RUSH crush and split (0-3 Kg)
3202	9	Rock - save entire reject
290	9	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	9	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	9	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	9	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	9	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	9	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	9	Ba ppm	XRF	10	50000
444	9	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	9	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	9	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	9	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	9	Ag ppm: high grade 24 element	AAS	0.5	200
4031	9	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	9	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	9	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	9	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	9	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	9	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	9	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	9	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	9	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	9	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	9	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	9	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	9	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	9	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	9	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	9	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	9	Pb %: high grade 24 element	AAS	0.001	10.00
4047	9	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	9	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	9	V ppm: A22 ICP package	ICP-AES	10	50000
4050	9	Zn ppm: A22 ICP package	ICP-AES	20	100000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1
 Total Pages: 1
 Certificate Date: 24-SEP-96
 Invoice No.: I9629848
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9629848

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS) Spec Gr	As %	Sb %	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm			
	RUSH	FA	RUSH	FA			ppm S.G.			AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)			
175091	258	295	0.38	43	0.02	0.37	0.82	5480	2.86	0.05	0.01	< 0.001	43.0	2.70	300	< 10	< 20	0.85	70	< 10	110
175092	258	295	0.17	17	0.11	0.11	4.74	6010	3.09	0.03	0.03	0.002	17.0	4.05	100	< 10	< 20	0.35	530	40	140
175093	258	295	< 0.07	13	0.06	0.15	2.41	7690	2.91	0.03	< 0.01	< 0.001	13.0	4.35	200	< 10	< 20	0.70	250	< 10	70
175094	258	295	0.58	69	0.18	1.13	4.20	5560	3.36	0.34	0.08	0.001	70.0	3.05	100	< 10	< 20	0.70	360	< 10	160
175095	258	295	0.72	84	0.08	0.70	4.69	9890	2.98	0.10	0.04	0.002	80.0	4.35	100	< 10	< 20	0.45	460	< 10	190
175096	258	295	4.63	541	0.13	2.96	7.53	1055	3.90	0.78	0.21	0.002	>200	0.70	100	< 10	< 20	0.15	540	< 10	160
175097	258	295	0.34	57	0.07	0.56	2.06	14650	2.90	0.10	< 0.01	< 0.001	54.0	5.55	200	< 10	< 20	0.35	190	< 10	130
175098	258	295	< 0.07	11	0.27	0.12	3.10	11020	2.99	< 0.01	< 0.01	< 0.001	13.0	3.80	400	< 10	< 20	10.45	300	10	70
175099	258	295	< 0.07	< 3	0.01	< 0.01	0.32	12010	2.74	0.01	< 0.01	< 0.001	2.0	3.70	700	< 10	< 20	3.50	< 10	< 10	170

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 1 of 1 : 1-B
Total P. : 1
Certificate Date: 24-SEP-96
Invoice No. : I9629848
P.O. Number : 6406
Account : GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9629848

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175091	258	295	320	8.35	1.2	0.25	170	< 10	0.05	30	0.360	30	0.05	120	9480
175092	258	295	1250	13.55	1.4	0.20	130	< 10	0.15	30	0.092	10	0.05	200	52600
175093	258	295	740	8.55	1.6	0.25	200	< 10	0.15	10	0.137	10	0.05	170	27800
175094	258	295	2000	20.2	1.2	0.25	220	< 10	0.05	20	1.080	< 10	0.05	180	47200
175095	258	295	970	11.55	1.7	0.35	170	30	0.15	60	0.662	< 10	0.05	340	53600
175096	258	295	1410	28.3	0.1	0.05	60	40 < 0.05	70	2.93	< 10	< 0.05	150	79000	
175097	258	295	840	7.65	2.3	0.50	70	30	0.25	30	0.560	< 10	0.10	250	22900
175098	258	295	2640	7.85	1.6	4.90	1630	< 10	0.15	30	0.118	270	0.05	220	31500
175099	258	295	80	4.30	1.4	1.65	1210	< 10	0.05	60	0.008	90	0.15	150	660

CERTIFICATION: Hart Bichler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 0 2 1 9

BILLING INFORMATION

Date: 12-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9630219

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	739.92

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	781.92
	Client Discount (25% of \$774.92) \$	-193.73

	Net Cost \$	588.19
(Reg# R100938885)	GST \$	41.17

TOTAL PAYABLE (CDN) \$ 629.36

* Not Subject to Discount



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments:

QC Pac 1-A
 Tot QC 1
 Date: 12-SEP-96
 Invoice #: 19630219
 P.O. #: GPW

QC DATA OF CERTIFICATE A9630219

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	ZnBa %	(XRF) Spec Gr ppm S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	0.007 0.008	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	0.68 0.67	3.54 3.58	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	820 865	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.65 0.62	178 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.82 0.83	0.46 0.45	0.95 0.95	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	2.59 2.62	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	6.0 4.3	5.90 5.72	400 285	< 10 < 10	< 20 < 20	3.45 3.50	< 10 < 10	390 364	280 266

CERTIFICATION: Hank Bickler



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments:

QC Paq 1-B
Tot QC 1
Date: 12-SEP-96
Invoice #: I9630219
P.O. #: GP W

QC DATA OF CERTIFICATE

A9630219

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	10070 9440	20.4 19.35	0.8 0.8	2.85 2.70	1030 961	< 10 < 10	1.55 1.38	11700 11050	0.009 0.007	250 221	0.30 0.29	130 115	480 191

CERTIFICATION: Harold Beshler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9630219

Comments:

CERTIFICATE **A9630219**

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 12-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	6	RUSH Assay ring approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
290	6	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	6	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	6	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	6	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	6	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	6	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	6	Ag ppm: high grade 24 element	AAS	0.5	200
4031	6	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	6	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	6	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	6	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	6	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	6	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	6	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	6	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	6	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	6	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	6	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	6	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	6	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	6	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	6	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	6	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	6	Pb %: high grade 24 element	AAS	0.001	10.00
4047	6	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	6	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	6	V ppm: A22 ICP package	ICP-AES	10	50000
4050	6	Zn ppm: A22 ICP package	ICP-AES	20	100000



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project : WOLVERINE
 Comments:

Page No. : 1-A
 Total Pgs : 1
 Certificate Date: 12-SEP-96
 Invoice No. : I9630219
 P.O. Number :
 Account : GP W

CERTIFICATE OF ANALYSIS A9630219

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSHER	RUSH FA																	
175133	258	295	0.34	144	0.28	1.61	34.5	1510	3.61	< 0.01	0.18	0.046	162.0	0.60	100	< 10	< 20	5.00	4810	10	70
175254	258	295	1.10	494	0.58	2.12	15.20	225	3.99	0.08	0.11	0.005	>200	0.25	100	< 10	< 20	0.35	1540	50	120
175255	258	295	1.03	573	1.87	2.46	13.40	355	3.81	0.16	0.09	0.003	>200	0.25	300	< 10	< 20	0.55	1280	40	120
175256	258	295	1.30	586	0.74	2.50	12.50	135	4.56	0.28	0.09	0.003	>200	0.40	100	< 10	< 20	1.45	1150	10	70
175257	258	295	2.13	576	1.22	2.06	11.40	245	4.13	0.56	0.17	0.003	>200	0.40	200	< 10	< 20	1.80	1050	40	110
175258	258	295	1.65	439	0.80	1.55	15.00	135	4.46	0.24	0.07	0.005	>200	0.40	100	< 10	< 20	0.80	1490	50	90

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments:

Page No. :1-B
Total Pgs. :1
Certificate Date: 12-SEP-96
Invoice No. :I9630219
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS

A9630219

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175133	258	295	2960	9.90	< 0.1	0.05	770	10	< 0.05	90	1.600	180	< 0.05	210	>100000
175254	258	295	6070	26.4	< 0.1	0.05	350	50	< 0.05	90	2.13	10	< 0.05	70	>100000
175255	258	295	19940	23.3	< 0.1	0.15	560	50	< 0.05	130	2.41	10	< 0.05	100	>100000
175256	258	295	7930	>30.0	< 0.1	0.15	580	80	< 0.05	90	2.43	30	< 0.05	110	>100000
175257	258	295	12930	>30.0	< 0.1	0.10	720	100	< 0.05	140	2.04	30	< 0.05	110	>100000
175258	258	295	8370	>30.0	< 0.1	0.15	470	60	< 0.05	80	1.520	20	< 0.05	30	>100000

CERTIFICATION:

[Signature]



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 0 2 2 1

BILLING INFORMATION

Date: 24-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9630221

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	18.75		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	85.45	85.45

Total Cost \$	85.45
Client Discount (25%) \$	<u>-21.36</u>
Net Cost \$	64.09
(Reg# R100938885) GST \$	<u>4.49</u>
TOTAL PAYABLE (CDN) \$	68.58



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9630221

Comments:

CERTIFICATE

A9630221

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	1	RUSH Geo ring to approx 150 mesh
295	1	RUSH crush and split (0-3 Kg)
3202	1	Rock - save entire reject
285	1	ICP - HF digestion charge
287	1	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	1	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	1	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	1	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	1	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	1	Ba ppm	XRF	10	50000
444	1	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	1	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	1	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	1	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	1	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	1	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	1	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	1	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	1	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	1	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	1	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	1	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	1	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	1	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	1	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	1	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	1	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	1	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	1	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	1	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	1	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	1	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	1	Pb ppm: 24 element, rock & core	AAS	2	10000
582	1	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	1	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	1	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	1	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	1	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

Page Number : 1-A
Total Pages : 1
Certificate Date: 24-SEP-96
Invoice No. : I9630221
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments:

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9630221

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm	S.G.	As ppm	Sb ppm	Hg Ag ppm	Al % Ba ppm	Be ppm	Bi ppm	Ca % Cd ppm	Co ppm	Cr ppm				
			RUSH	RUSH							AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)				
175259	255	295	245	89.8	0.64	0.08	0.27	6730	2.84	6	56	1330	90.0	5.81	350	2.0	16	5.49	23.0	6	185

CERTIFICATION: Hart Buchler

* Ba-ICP MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
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Project : WOLVERINE
Comments:

Page Number : 1-B
Total Pages : 1
Certificate Date: 24-SEP-96
Invoice No. : I9630221
P.O. Number :
Account : GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS

A9630221

SAMPLE	PREP CODE	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175259	255 295	6690	4.08	2.71	2.03	945	8	0.20	12	520	720	162	0.09	204	< 10	2420

CERTIFICATION:

* Ba-ICP MAY BE LOW DUE TO PRECIPITATION



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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 0 2 2 4

BILLING INFORMATION

Date: 24-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9630224

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
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North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	189.64

Total Cost \$	189.64
Client Discount (25%) \$	<u>-47.41</u>
Net Cost \$	142.23
(Reg# R100938885) GST \$	<u>9.96</u>
TOTAL PAYABLE (CDN) \$	152.19



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9630224

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9630224

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	2	RUSH Geo ring to approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
285	2	ICP - HF digestion charge
287	2	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	2	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	2	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	2	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	2	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	2	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	2	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	2	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	2	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	2	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	2	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	2	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	2	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	2	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	2	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	2	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	2	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	2	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	2	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	2	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	2	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	2	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	2	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	2	Pb ppm: 24 element, rock & core	AAS	2	10000
582	2	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	2	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	2	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	2	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	2	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 1 : 1-A
Total P: 1
Certificate Date: 24-SEP-96
Invoice No. : 19630224
P.O. Number :
Account : GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9630224

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm		
	RUSH	RUSH	RUSH	RUSH	%	%	%	ppm	S.G.	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
175252	255	295	50	7.9	0.01	0.01	0.11	>50000	2.76	94	19.0	350	7.6	2.75	780	1.5	< 2	0.72	5.5	5	261
175253	255	295	935	286	0.17	0.08	0.68	34900	2.82	730	570	2550	>100.0	2.24	940	5.0	24	1.71	52.5	12	257

CERTIFICATION:

Hart Bichler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page No. : 1-B
Total P. : 1
Certificate Date: 24-SEP-96
Invoice No. : I9630224
P.O. Number :
Account : GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9630224

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175252	255	295	119	3.05	0.19	0.27	170	12	0.04	82	370	36	45	0.07	204	< 10	1000
175253	255	295	1725	6.56	0.34	0.25	225	90	0.03	235	1810	360	53	0.09	1235	< 10	5860

CERTIFICATION:

[Handwritten Signature]

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 1 6 4 6

BILLING INFORMATION

Date: 24-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9631646

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	205 - Geochem ring to approx 150 mesh A-3 Cu,Pb,Zn assay group ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 18.75 20.00 2.60		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	82.40	412.00
		Total Cost \$		412.00
		Client Discount (25%) \$		-103.00
		Net Cost \$		309.00
		(Reg# R100938885) GST \$		21.63
		TOTAL PAYABLE (CDN) \$		330.63



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9631646

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9631646

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Geochem ring to approx 150 mesh
226	5	0-3 Kg crush and split
3202	5	Rock - save entire reject
285	5	ICP - HF digestion charge
287	5	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	5	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	5	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	5	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	5	Ba ppm	XRF	10	50000
444	5	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	5	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	5	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	5	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	5	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	5	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	5	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	5	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	5	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	5	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	5	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	5	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	5	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	5	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	5	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	5	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	5	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	5	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	5	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	5	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	5	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	5	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	5	Pb ppm: 24 element, rock & core	AAS	2	10000
582	5	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	5	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	5	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	5	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	5	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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Page No. : 1-A
 Total P. : 1
 Certificate Date: 24-SEP-96
 Invoice No. : I9631646
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9631646

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH																	
105667	205	226	75	5.0	< 0.01	0.03	0.68	7150	2.73	82	40	3990	4.2	6.64	280	2.5	8	0.69	62.0	5	118
105668	205	226	160	27.8	0.02	0.04	0.55	14530	2.68	176	64	2260	26.4	2.87	100	2.5	< 2	3.86	48.0	6	152
105669	205	226	1150	213	0.13	1.01	4.15	7290	2.86	430	>1000	4970	>100.0	1.71	150	2.5	10	2.72	304	10	217
105676	205	226	30	18.4	0.34	0.09	0.69	3100	2.85	2	46	140	18.0	4.09	220	< 0.5	8	1.78	67.0	19	48
105677	205	226	120	44.8	1.98	0.18	3.59	10450	3.11	1	22	900	45.0	8.62	110	3.0	Intf*	1.09	344	73	35

CERTIFICATION:

Hart Buehler

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page No : 1-B
Total Pgs : 1
Certificate Date: 24-SEP-96
Invoice No. : I9631646
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9631646

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105667	205	226	38	3.12	3.30	0.76	135	17	0.16	35	760	150	35	0.15	443	10	6230
105668	205	226	269	2.50	0.95	0.30	390	16	0.04	108	5090	220	123	0.08	428	10	4770
105669	205	226	1400	7.81	0.59	0.28	365	32	0.02	114	2320	9700	55	0.06	522	10	>10000
105676	205	226	3380	11.65	0.05	1.80	830	1	0.63	12	280	640	80	0.08	14	20	6150
105677	205	226	>10000	12.85	2.89	1.29	465	5	0.87	11	Intf*	1400	51	0.11	57	20	>10000

CERTIFICATION: _____

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

INVOICE NUMBER

I 9 6 3 0 5 4 5

BILLING INFORMATION

Date: 17-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9630545

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
40	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1394.00
Total Cost \$				1394.00
Client Discount (25%) \$				<u>-348.50</u>
Net Cost \$				1045.50
(Reg# R100938885) GST \$				<u>73.19</u>
TOTAL PAYABLE (CDN) \$				1118.69

COPY



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa: 1-A
 Tot QC: 1
 Date: 15-SEP-96
 Invoice #: 19630545
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630545

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT G96-TOT CHEMEX MEAN	Std1 Std2	1 1	----	----	----	----	----	7.22 7.38 7.52	1300 1170 1155	1.5 0.5 0.5	4 2 < 2	2.17 2.11 2.04	1.0 1.5 1.0	19 18 16	94 102 97	192 182 177
GEO-90 GEO-90 CHEMEX MEAN	Std1 Std2	1 1	----	----	----	160 170 189	----	----	----	----	----	----	----	----	----	----
GEO-96 GEO-96 CHEMEX MEAN	Std1 Std2	1 1	----	58 58 64	4.6 3.4 4.5	----	5.6 5.8 5.5	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10 19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	1 2	0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.31 0.24	20 13	< 0.5 < 0.5	2 < 2	0.03 0.01	< 0.5 < 0.5	< 1 < 1	5 5	1 2	
SL-96 CHEMEX MEAN	Std2	1	700 765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96 CHEMEX MEAN	Std1	1	220 239	----	----	----	----	----	----	----	----	----	----	----	----	----
105351	Dupl-01 Origl-01		< 5 < 5	1 1	0.8 0.6	80 70	0.2 < 0.2	2.68 2.64	9050 7920	0.5 0.5	6 < 2	0.58 0.54	< 0.5 < 0.5	13 11	224 207	176 157

CERTIFICATION:

Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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QC Pat 1-B
 Tot QC 1
 Date: 15-SEP-96
 Invoice #: 19630545
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630545

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	4.62	1.81	1.00	1020	8	0.96	22	640	----	230	0.35	160	< 10	180
G96-TOT	std2	1	4.65	1.74	1.01	975	9	0.96	23	610	----	222	0.36	154	< 10	182
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-90	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	std2	1	----	----	----	----	----	----	----	----	140	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.06	0.06	0.01	< 5	< 1	0.03	1	160	----	143	0.01	4	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
105351	Dupl-01		5.89	0.40	0.57	9460	14	0.10	110	270	< 2	143	0.15	113	< 10	116
	Origl-01		5.81	0.36	0.56	8810	13	0.10	105	240	< 2	141	0.15	106	< 10	118

CERTIFICATION: H. J. B. B. B.



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 PROJECT: WOLVERINE
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 V7X 1C4

A9630545

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9630545

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 15-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	40	Geochem ring to approx 150 mesh
226	40	0-3 Kg crush and split
3202	40	Rock - save entire reject
285	40	ICP - HF digestion charge
287	40	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	40	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	40	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	40	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	40	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	40	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	40	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	40	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	40	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	40	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	40	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	40	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	40	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	40	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	40	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	40	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	40	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	40	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	40	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	40	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	40	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	40	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	40	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	40	Pb ppm: 24 element, rock & core	AAS	2	10000
582	40	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	40	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	40	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	40	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	40	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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Page No. : 1-A
 Total Pgs. : 1
 Certificate Date: 15-SEP-96
 Invoice No. : 19630545
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630545

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105351	205 226	< 5	1	0.6	70	< 0.2	2.64	7920	0.5	< 2	0.54	< 0.5	11	207	157
105352	205 226	< 5	1	3.6	110	< 0.2	1.47	5090	< 0.5	8	1.16	< 0.5	29	147	35
105353	205 226	20	2	1.0	40	< 0.2	1.82	280	0.5	< 2	0.43	< 0.5	7	262	65
105354	205 226	< 5	30	1.8	20	< 0.2	4.49	>10000	2.0	4	1.47	< 0.5	20	175	37
105355	205 226	< 5	1	0.2	30	< 0.2	1.56	270	1.5	2	0.19	< 0.5	4	367	46
105356	205 226	< 5	1	0.4	130	0.4	2.59	460	2.0	< 2	0.54	< 0.5	6	238	57
105357	205 226	< 5	2	0.8	20	< 0.2	3.07	600	5.0	2	0.17	< 0.5	5	231	20
105358	205 226	< 5	1	0.6	< 10	< 0.2	3.15	>10000	2.0	2	0.50	< 0.5	10	158	91
105359	205 226	< 5	1	0.4	20	< 0.2	2.24	1150	2.5	< 2	0.79	< 0.5	4	240	26
105360	205 226	< 5	1	1.0	10	< 0.2	1.24	90	1.0	2	2.02	< 0.5	1	142	9
105361	205 226	< 5	2	1.0	130	< 0.2	2.72	370	6.0	< 2	0.64	< 0.5	6	197	47
105362	205 226	< 5	1	3.6	380	0.4	2.35	60	2.0	2	5.16	13.5	8	144	71
105363	205 226	< 5	1	1.0	210	< 0.2	4.85	500	3.0	< 2	0.60	5.0	9	248	44
105364	205 226	10	14	13.5	110	0.6	1.86	210	1.5	< 2	4.45	< 0.5	6	205	47
105365	205 226	15	12	16.5	800	0.6	2.34	110	2.0	2	4.24	1.5	7	317	46
105366	205 226	50	66	33	590	3.6	3.68	350	3.0	< 2	1.91	3.0	6	237	96
105367	205 226	35	70	32	410	2.8	3.35	430	2.0	< 2	7.03	1.0	6	262	82
105380	205 226	< 5	26	1.2	10	0.2	4.56	4120	0.5	12	5.04	< 0.5	10	105	30
105381	205 226	< 5	28	1.4	10	2.6	7.02	1900	0.5	22	1.88	< 0.5	21	79	37
105382	205 226	< 5	6	1.2	< 10	2.6	5.55	2440	1.0	26	2.26	< 0.5	14	73	35
105383	205 226	< 5	6	4.0	< 10	3.6	6.68	2420	0.5	120	0.84	< 0.5	21	79	146
105384	205 226	< 5	4	22	630	3.0	5.55	400	1.0	14	1.07	12.0	11	123	1395
105385	205 226	< 5	6	34	90	1.2	5.85	2650	1.0	28	0.70	1.5	13	71	280
105386	205 226	< 5	2	0.8	< 10	< 0.2	5.48	2190	1.5	10	0.27	< 0.5	11	66	19
105387	205 226	< 5	1	0.4	20	< 0.2	6.27	2850	1.5	6	0.51	< 0.5	8	100	22
105388	205 226	< 5	1	0.2	< 10	< 0.2	6.72	3060	1.5	< 2	1.44	< 0.5	8	84	29
105389	205 226	< 5	2	0.4	< 10	< 0.2	5.49	1710	1.5	< 2	0.56	< 0.5	8	90	11
105390	205 226	< 5	4	< 0.2	< 10	< 0.2	5.82	2320	2.0	< 2	0.56	< 0.5	8	78	8
105391	205 226	< 5	6	1.0	< 10	0.2	6.16	1640	1.0	2	2.16	< 0.5	11	103	15
105392	205 226	< 5	2	0.2	< 10	0.2	6.86	1930	1.5	< 2	0.74	< 0.5	9	55	28
105393	205 226	< 5	1	0.8	10	< 0.2	7.35	2180	1.5	< 2	0.82	< 0.5	8	89	15
105394	205 226	< 5	6	1.2	20	< 0.2	7.38	2370	2.0	< 2	0.59	< 0.5	6	77	9
105395	205 226	< 5	2	0.4	10	< 0.2	7.89	3280	2.5	< 2	0.45	< 0.5	5	167	9
105396	205 226	< 5	1	1.2	< 10	< 0.2	7.55	2680	2.5	< 2	0.61	< 0.5	5	72	1
105397	205 226	< 5	8	1.4	150	< 0.2	7.96	1190	2.5	< 2	1.11	< 0.5	5	114	6
105398	205 226	< 5	6	1.2	40	< 0.2	6.95	1280	2.0	< 2	1.50	< 0.5	3	111	5
105399	205 226	< 5	4	1.6	< 10	< 0.2	7.17	780	3.0	< 2	1.23	< 0.5	5	104	5
105400	205 226	< 5	6	1.6	20	0.4	6.63	1130	2.5	< 2	1.81	< 0.5	4	79	6
105401	205 226	< 5	8	2.0	70	0.2	7.33	1630	3.0	< 2	2.28	< 0.5	4	88	6
105402	205 226	< 5	18	3.4	190	0.2	6.92	740	2.5	< 2	2.85	< 0.5	4	103	7

CERTIFICATION: *Howard Buchler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

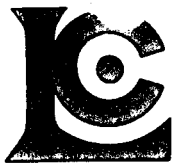
Page No. : 1-B
 Total Pages : 1
 Certificate Date: 15-SEP-96
 Invoice No. : I9630545
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630545

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105351	205 226	5.81	0.36	0.56	8810	13	0.10	105	240	< 2	141	0.15	106	< 10	118
105352	205 226	3.03	0.07	0.64	>10000	1	0.03	160	330	< 2	193	0.06	103	< 10	212
105353	205 226	6.06	0.42	0.37	4620	18	0.03	39	620	< 2	76	0.09	96	< 10	60
105354	205 226	3.40	0.83	0.48	>10000	27	0.13	70	90	12	299	0.14	94	< 10	60
105355	205 226	4.59	0.23	0.18	1265	4	0.03	14	140	< 2	48	0.12	66	< 10	36
105356	205 226	3.58	0.80	0.32	1330	8	0.05	40	460	6	161	0.12	137	< 10	222
105357	205 226	6.02	0.76	0.47	415	5	0.04	16	330	< 2	36	0.16	108	< 10	28
105358	205 226	6.65	0.18	0.41	190	3	0.06	21	310	< 2	164	0.13	54	< 10	50
105359	205 226	10.90	0.13	0.35	340	5	0.05	19	570	< 2	207	0.12	108	< 10	26
105360	205 226	12.60	0.03	0.37	365	10	0.01	12	1810	< 2	225	0.07	65	< 10	24
105361	205 226	2.33	1.00	0.31	335	17	0.06	22	320	20	42	0.14	104	< 10	232
105362	205 226	5.51	0.75	0.80	1810	6	0.05	28	770	370	185	0.07	141	< 10	2890
105363	205 226	3.17	1.16	0.40	235	4	0.10	31	220	150	45	0.13	115	< 10	1140
105364	205 226	2.13	0.89	0.27	505	1	0.02	26	2280	20	151	0.08	114	< 10	150
105365	205 226	1.60	1.22	0.33	590	2	0.02	29	2420	12	100	0.11	152	< 10	626
105366	205 226	2.47	1.67	0.41	225	18	0.05	86	2020	28	96	0.14	335	< 10	504
105367	205 226	2.64	0.77	0.25	660	11	0.06	68	2290	8	322	0.13	244	< 10	286
105380	205 226	4.14	1.56	2.50	1340	1	0.15	8	290	4	141	0.10	17	< 10	134
105381	205 226	9.89	0.69	5.18	1295	3	0.14	5	340	44	67	0.07	24	< 10	226
105382	205 226	6.91	0.93	3.82	1295	1	0.10	3	300	24	79	0.08	22	< 10	144
105383	205 226	8.97	0.91	3.99	1050	1	0.13	4	350	100	29	0.09	21	< 10	192
105384	205 226	3.16	2.23	1.53	335	4	0.12	8	290	30	35	0.10	40	< 10	1535
105385	205 226	5.19	1.42	3.05	635	4	0.12	1	260	56	23	0.07	23	< 10	254
105386	205 226	4.13	1.43	2.73	545	3	0.10	2	310	< 2	12	0.10	15	< 10	74
105387	205 226	3.01	2.02	2.97	640	3	0.14	4	330	< 2	19	0.11	18	< 10	70
105388	205 226	3.22	2.32	2.99	855	3	0.14	2	340	< 2	38	0.14	21	< 10	72
105389	205 226	4.00	1.35	3.04	610	2	0.10	4	260	< 2	18	0.09	14	< 10	80
105390	205 226	3.23	1.90	2.59	425	1	0.15	< 1	290	< 2	22	0.10	15	< 10	66
105391	205 226	6.47	1.29	4.29	1040	4	0.13	1	310	< 2	65	0.09	21	< 10	150
105392	205 226	5.79	1.42	4.16	735	3	0.15	1	380	< 2	22	0.10	20	< 10	142
105393	205 226	4.67	1.69	5.03	660	4	0.18	1	360	< 2	24	0.10	22	< 10	112
105394	205 226	3.12	2.26	3.89	380	2	0.16	1	340	< 2	22	0.12	21	< 10	76
105395	205 226	2.25	2.57	3.44	200	3	0.17	4	400	< 2	22	0.14	23	< 10	58
105396	205 226	1.87	2.33	3.88	165	4	0.17	3	370	< 2	23	0.15	22	< 10	42
105397	205 226	2.06	3.09	3.18	140	3	0.18	5	380	< 2	40	0.16	23	< 10	28
105398	205 226	2.20	2.58	4.25	145	3	0.19	1	340	< 2	60	0.16	21	< 10	32
105399	205 226	1.77	3.18	2.82	110	2	0.16	3	370	6	61	0.18	21	< 10	24
105400	205 226	1.57	3.31	2.06	140	1	0.15	3	320	6	76	0.17	17	< 10	34
105401	205 226	1.55	3.53	1.76	185	3	0.16	4	340	14	73	0.19	20	< 10	52
105402	205 226	1.46	3.28	0.75	155	3	0.12	2	350	12	104	0.19	22	< 10	20

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 0 6 5 4

BILLING INFORMATION

Date: 12-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9630654

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	739.92
Additional charges:				
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00
				Total Cost \$ 781.92
Client Discount (25% of \$774.92) \$				-193.73
				Net Cost \$ 588.19
(Reg# R100938885) GST \$				41.17
TOTAL PAYABLE (CDN) \$				629.36

* Not Subject to Discount



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa. 1-A
 Tot QC 1
 Date: 12-SEP-96
 Invoice #: 19630654
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9630654

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH	Ag g/t RUSH FA	Cu %	Pb %	ZnBa %	(XRF) Spec Gr ppm	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	0.007	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	----	----	----	0.008	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	0.68	3.57	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	----	0.67	3.58	----	----	----	----	----	----	----	----	----	----
GEO-90 CHEMEX MEAN	std1 1	----	----	----	----	----	865	----	----	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	865	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	std1 1	0.58	173	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
		0.62	175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	std1 1	----	----	0.83	0.46	0.94	----	----	----	----	----	----	----	----	----	----	----	----	----
		----	----	0.83	0.45	0.95	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	std1 1	----	----	----	----	----	2.62	----	----	----	----	----	----	----	----	----	----	----	----
		----	----	----	----	----	2.62	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	5.0	5.90	200	< 10	< 20	3.35	< 10	390	330
		----	----	----	----	----	----	----	----	----	4.3	5.72	285	< 10	< 20	3.50	< 10	364	266

CERTIFICATION: Hart Becker

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC Pa 1-B
Tot QC 1
Date: 12-SEP-96
Invoice #: I9630654
P.O. #: 6406
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE

A9630654

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1 ---	9880 9440	20.3 19.35	0.9 0.8	2.85 2.70	1030 961	< 10 < 10	1.50 1.38	11660 11050	0.010 0.007	230 221	0.30 0.29	120 115	640 191

CERTIFICATION:

[Handwritten Signature]

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
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 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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A9630654

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE **A9630654**

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 12-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	6	RUSH Assay ring approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
290	6	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	6	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	6	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	6	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	6	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	6	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	6	Ag ppm: high grade 24 element	AAS	0.5	200
4031	6	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	6	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	6	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	6	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	6	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	6	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	6	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	6	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	6	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	6	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	6	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	6	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	6	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	6	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	6	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	6	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	6	Pb %: high grade 24 element	AAS	0.001	10.00
4047	6	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	6	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	6	V ppm: A22 ICP package	ICP-AES	10	50000
4050	6	Zn ppm: A22 ICP package	ICP-AES	20	100000



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Page No : 1-A
 Total P. : 1
 Certificate Date: 12-SEP-96
 Invoice No. : 19630654
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9630654

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr ppm	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSERUSH	FA				S.G.				AAS									
105670	258	295	1.61	338	0.35	2.42	19.60	195	4.13	0.28	0.20	0.009	>200	0.25	100	< 10	< 20	1.80	1990	30	90
105671	258	295	1.44	357	0.57	2.00	13.50	870	4.42	0.38	0.06	0.003	>200	0.90	200	< 10	< 20	1.70	1280	20	120
105672	258	295	1.17	427	0.38	2.82	21.5	75	4.13	0.31	0.10	0.004	>200	0.30	< 100	< 10	< 20	1.20	2210	40	90
105673	258	295	1.68	582	0.51	3.83	8.52	110	4.44	0.19	0.08	< 0.001	>200	0.35	100	< 10	< 20	0.50	660	< 10	110
105674	258	295	0.27	139	1.16	0.64	6.46	1640	3.44	0.01	0.03	< 0.001	138.0	4.80	200	< 10	< 20	4.50	630	50	90
105675	258	295	0.41	183	1.66	0.94	15.40	2370	3.87	< 0.01	0.01	< 0.001	181.0	2.05	300	< 10	20	4.75	1600	140	110

CERTIFICATION: Hart Buchler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 1 of 1 : 1-B
Total P. : 1
Certificate Date: 12-SEP-96
Invoice No. : I9630654
P.O. Number : 6406
Account : GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9630654

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105670	258	295	3560	26.4	< 0.1	0.05	560	90	< 0.05	120	2.37	40	< 0.05	30	>100000
105671	258	295	5940	>30.0	0.3	0.15	490	50	< 0.05	40	1.970	50	< 0.05	70	>100000
105672	258	295	3940	25.4	< 0.1	0.05	480	70	< 0.05	90	2.68	10	< 0.05	50	>100000
105673	258	295	5240	>30.0	< 0.1	0.05	230	90	< 0.05	70	3.63	< 10	< 0.05	60	81100
105674	258	295	11500	25.2	0.6	1.70	1120	< 10	0.15	50	0.610	230	0.05	540	61700
105675	258	295	17330	27.3	0.7	0.45	1570	10	0.05	80	0.912	120	< 0.05	430	>100000

CERTIFICATION: *[Signature]*

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British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 3 0 6 9 2**

BILLING INFORMATION

Date: 17-SEP-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9630692

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
32	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1115.20
Total Cost \$				1115.20
Client Discount (25%) \$				-278.80
Net Cost \$				836.40
(Reg# R100938885) GST \$				58.55
TOTAL PAYABLE (CDN) \$				894.95



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9630692

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9630692

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 17-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	32	Geochem ring to approx 150 mesh
226	32	0-3 Kg crush and split
3202	32	Rock - save entire reject
285	32	ICP - HF digestion charge
287	32	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	32	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	32	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	32	Sb ppm: HCl-KClO3 digest, extrac	AAS-BROGD CORR	0.2	1000
20	32	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	32	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	32	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	32	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	32	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	32	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	32	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	32	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	32	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	32	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	32	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	32	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	32	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	32	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	32	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	32	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	32	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	32	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	32	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	32	Pb ppm: 24 element, rock & core	AAS	2	10000
582	32	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	32	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	32	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	32	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	32	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa# 1-A
 Tot QC 1
 Date: 17-SEP-96
 Invoice #: 19630692
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630692

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CKR-W	std1	1	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	----	7.55	1160	1.5	4	2.16	0.5	19	94	183
G96-TOT	std2	1	----	----	----	----	----	7.37	1150	0.5	4	2.07	1.0	19	95	178
CHEMEX MEAN	---	---	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-90	std1	1	----	----	----	170	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	220	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	189	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	58	4.4	----	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	60	5.0	----	5.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	64	4.5	----	5.5	----	----	----	----	----	----	----	----	----
NG-94	std2	1	325	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	334	----	----	----	----	----	----	----	----	----	----	----	----	----
175061	Dupl	1-01	50	176	64	380	4.0	2.35	390	2.0	10	1.54	3.0	10	308	1095
	Orig	1-01	30	182	66	320	4.0	2.34	190	2.5	8	1.52	3.0	9	295	1090

CERTIFICATION: Hart Bickler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa: 1-B
 Tot QC: 1
 Date: 17-SEP-96
 Invoice #: 19630692
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630692

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CKR-W CHEMEX MEAN	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	4.82	1.69	1.02	1060	9	0.93	24	640	----	227	0.35	160	< 10	188
G96-TOT	std2	1	4.64	1.71	1.01	1020	9	1.03	21	620	----	224	0.34	155	20	186
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-90	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	----	----	----	----	----	----	----	146	----	----	----	----	----
GEO-96	std2	1	----	----	----	----	----	----	----	----	140	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
NG-94	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
175061	Dup1-01		4.22	0.82	0.86	350	16	0.05	52	1370	70	43	0.08	367	< 10	460
	Orig1-01		4.17	0.84	0.85	350	16	0.05	52	1330	72	42	0.07	354	< 10	458

CERTIFICATION:

Handwritten signature



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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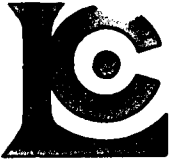
Page No : 1-A
 Total F : 1
 Certificate Date: 17-SEP-96
 Invoice No. : I9630692
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630692

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175061	205 226	30	182	66	320	4.0	2.34	190	2.5	8	1.52	3.0	9	295	1090
175062	205 226	15	20	19.5	60	4.0	2.21	460	2.0	10	17.00	2.5	13	115	281
175063	205 226	5	14	26	30	3.4	3.47	1230	3.0	8	15.95	0.5	9	140	245
175064	205 226	35	64	36	230	0.8	2.61	220	1.5	6	3.52	3.0	6	334	68
175065	205 226	5	12	8.0	120	0.8	5.82	3060	2.5	2	4.08	0.5	4	175	61
175066	205 226	< 5	2	16.0	80	2.0	8.40	2430	3.0	8	0.63	< 0.5	12	103	143
175067	205 226	< 5	4	1.4	170	0.8	6.49	1880	2.0	6	0.46	2.5	9	122	94
175068	205 226	< 5	2	1.2	40	< 0.2	6.47	1020	2.0	4	0.56	< 0.5	7	112	27
175069	205 226	< 5	4	0.8	10	< 0.2	6.76	2820	1.5	2	0.56	< 0.5	10	85	15
175070	205 226	< 5	10	1.2	10	< 0.2	6.21	2540	1.5	14	0.43	< 0.5	12	63	21
175071	205 226	< 5	6	0.4	< 10	< 0.2	7.05	2960	2.0	4	0.51	< 0.5	8	53	12
175072	205 226	< 5	6	0.6	< 10	< 0.2	7.76	3850	2.0	4	0.70	< 0.5	7	50	19
175073	205 226	< 5	10	0.8	10	< 0.2	7.49	3750	2.5	4	1.92	< 0.5	7	73	16
175074	205 226	< 5	14	1.8	60	< 0.2	7.57	1660	2.5	6	0.79	< 0.5	5	34	54
175075	205 226	5	22	5.6	200	0.4	2.30	670	0.5	4	0.89	< 0.5	19	115	45
175076	205 226	< 5	4	6.0	110	< 0.2	3.31	540	2.0	2	0.88	< 0.5	12	128	55
175077	205 226	45	2	1.8	110	< 0.2	2.85	480	2.0	< 2	1.35	< 0.5	5	140	34
175078	205 226	< 5	6	0.8	420	< 0.2	2.61	790	2.0	< 2	0.28	< 0.5	6	198	68
175079	205 226	< 5	2	1.0	10	< 0.2	2.69	710	4.0	< 2	0.28	< 0.5	4	158	56
175080	205 226	< 5	4	2.8	30	< 0.2	2.77	340	3.5	2	1.80	< 0.5	4	131	20
175081	205 226	< 5	2	1.0	40	< 0.2	6.35	6100	5.0	6	1.25	0.5	6	109	17
175082	205 226	< 5	4	10.0	50	< 0.2	3.96	620	2.5	2	1.29	< 0.5	12	193	75
175083	205 226	95	82	26	3200	2.8	5.99	680	2.5	2	1.74	10.0	5	116	41
175084	205 226	35	26	18.0	290	0.8	2.66	170	2.0	< 2	2.19	0.5	5	222	45
175085	205 226	45	100	360	10280	11.0	6.81	820	1.5	10	10.65	43.0	16	75	713
175086	205 226	180	448	220	36200	49.6	6.45	760	5.5	8	0.96	91.5	6	151	374
175087	205 226	780	236	>1000	>100000	>100.0	1.45	330	1.5	14	7.31	>500	7	118	1375
175100	205 226	45	40	26	370	2.0	3.47	90	3.5	6	2.69	5.5	7	193	38
175101	205 226	115	74	42	2870	23.2	5.63	30	3.5	6	4.00	79.0	6	145	317
175102	205 226	35	8	11.5	70	3.4	6.28	650	1.5	34	0.67	1.0	12	130	25
175103	205 226	10	2	3.6	10	2.8	6.81	660	1.5	28	0.65	< 0.5	17	110	38
175104	205 226	< 5	1	1.4	< 10	0.4	6.23	460	0.5	10	0.14	0.5	13	103	30

CERTIFICATION: _____



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page No. : 1-B
Total P. : 1
Certificate Date: 17-SEP-96
Invoice No. : I9630692
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS

A9630692

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175061	205 226	4.17	0.84	0.85	350	16	0.05	52	1330	72	42	0.07	354	< 10	458
175062	205 226	3.11	0.96	4.36	1425	12	0.05	24	280	240	414	0.04	384	< 10	274
175063	205 226	2.58	1.52	3.84	1345	13	0.07	27	290	210	425	0.05	619	< 10	96
175064	205 226	3.99	0.96	0.91	495	6	0.06	53	1340	40	71	0.11	242	< 10	546
175065	205 226	1.55	2.47	1.93	390	4	0.17	11	170	24	123	0.08	130	< 10	50
175066	205 226	2.65	3.55	1.72	245	3	0.20	6	410	68	33	0.16	87	< 10	168
175067	205 226	2.23	2.70	1.62	495	2	0.14	1	330	164	21	0.13	21	< 10	612
175068	205 226	2.57	2.32	2.37	610	5	0.14	3	340	8	21	0.11	20	< 10	148
175069	205 226	4.39	1.70	4.00	780	2	0.16	3	340	4	19	0.11	21	< 10	118
175070	205 226	4.65	1.59	3.09	670	4	0.13	< 1	300	< 2	18	0.10	18	< 10	120
175071	205 226	4.04	1.93	3.93	550	4	0.17	1	340	< 2	20	0.11	20	< 10	106
175072	205 226	2.49	2.59	3.44	380	3	0.18	3	420	< 2	26	0.14	21	< 10	78
175073	205 226	2.18	2.75	3.31	440	3	0.20	1	390	< 2	50	0.13	22	< 10	66
175074	205 226	1.92	2.72	2.75	240	2	0.17	2	360	4	28	0.12	20	< 10	124
175075	205 226	9.16	0.11	0.41	>10000	41	0.02	88	330	10	130	0.09	103	< 10	76
175076	205 226	10.45	0.45	0.40	9540	26	0.04	43	380	10	118	0.12	97	< 10	78
175077	205 226	5.61	0.61	0.44	5580	1	0.02	21	400	4	86	0.11	114	< 10	24
175078	205 226	1.35	0.69	0.27	310	4	0.04	39	210	26	133	0.10	106	< 10	508
175079	205 226	2.67	0.67	0.34	135	4	0.04	25	150	2	42	0.11	95	< 10	52
175080	205 226	12.05	0.17	0.55	415	14	0.02	19	1310	14	187	0.11	77	< 10	108
175081	205 226	2.17	2.50	0.82	335	4	0.12	7	190	34	86	0.13	28	< 10	266
175082	205 226	2.07	1.79	0.46	795	1	0.06	43	270	36	42	0.19	148	< 10	106
175083	205 226	2.35	2.80	0.68	290	17	0.10	29	570	88	101	0.17	269	< 10	1130
175084	205 226	1.99	1.29	0.34	310	9	0.02	37	1830	22	104	0.12	218	< 10	242
175085	205 226	3.96	3.25	1.80	2100	< 1	0.16	4	430	90	538	0.18	32	< 10	5360
175086	205 226	6.52	2.56	0.90	245	82	0.13	118	2890	740	97	0.17	1640	< 10	7370
175087	205 226	5.11	0.59	0.25	1190	23	0.02	95	2160	>10000	142	0.04	629	40	>10000
175100	205 226	2.63	1.32	1.47	1075	4	0.07	36	460	76	75	0.14	118	< 10	760
175101	205 226	5.89	2.36	1.72	850	12	0.25	47	2320	580	97	0.09	196	10	9830
175102	205 226	5.28	2.41	1.60	430	2	0.22	8	370	50	29	0.10	41	10	154
175103	205 226	6.57	2.56	1.96	745	4	0.25	5	330	32	30	0.11	28	< 10	86
175104	205 226	5.72	1.72	2.26	535	3	0.21	3	330	8	11	0.10	19	< 10	88

CERTIFICATION: Hank Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 0 6 9 3

BILLING INFORMATION

Date: 16-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9630693

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
85	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	2962.25
Total Cost \$				2962.25
Client Discount (25%) \$				-740.56
Net Cost \$				2221.69
(Reg# R100938885) GST \$				155.52
TOTAL PAYABLE (CDN) \$				2377.21



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pac 1-A
 Tot QC 2
 Date: 15-SEP-96
 Invoice #: I9630693
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630693

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	1	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	2	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	3	80	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	----	7.61	1180	0.5	< 2	2.13	1.0	19	100	184
G96-TOT	std2	1	----	----	----	----	----	7.67	1180	1.0	8	2.21	0.5	20	104	188
G96-TOT	std1	2	----	----	----	----	----	7.71	1200	1.5	8	2.26	0.5	20	97	187
G96-TOT	std2	2	----	----	----	----	----	7.57	1150	1.0	8	2.18	1.5	19	100	180
G96-TOT	std1	3	----	----	----	----	----	7.60	1150	1.0	10	2.18	1.5	19	118	182
CHEMEX MEAN	----	----	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-90	std1	1	----	----	----	140	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	130	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	----	----	150	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	----	----	140	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	----	----	210	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	189	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	58	5.2	----	5.8	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	58	5.0	----	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std1	2	----	58	5.0	----	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std2	2	----	56	4.8	----	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std1	3	----	60	4.6	----	5.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	64	4.5	----	5.5	----	----	----	----	----	----	----	----	----
NG-94	std2	1	325	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	334	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.29	10	< 0.5	< 2	0.01	< 0.5	< 1	< 1	< 1	< 1
SIO2-T3	Blnk	2	----	----	----	----	0.29	20	< 0.5	2	0.02	< 0.5	< 1	2	2	< 1
CHEMEX MEAN	----	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	5	2
WC-96	std1	2	230	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa: 1-B
 Tot QC: 2
 Date: 15-SEP-96
 Invoice #: I9630693
 P.O. #: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630693

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CKR-W	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	4.74	1.79	1.04	1040	9	1.09	21	680	----	232	0.36	159	20	188
G96-TOT	std2	1	4.88	1.69	1.05	1065	10	0.95	23	680	----	232	0.38	163	< 10	184
G96-TOT	std1	2	4.86	1.77	1.05	1105	11	0.97	26	720	----	235	0.37	167	< 10	184
G96-TOT	std2	2	4.68	1.65	1.03	1050	8	0.92	22	680	----	226	0.34	158	< 10	184
G96-TOT	std1	3	4.73	1.68	1.03	1055	12	0.92	39	710	----	227	0.34	162	< 10	184
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-90	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	std2	1	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	std1	2	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	std2	2	----	----	----	----	----	----	----	----	134	----	----	----	----	----
GEO-96	std1	3	----	----	----	----	----	----	----	----	130	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
NG-94	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.04	0.06	< 0.01	< 5	< 1	0.01	< 1	150	----	140	0.01	2	< 10	< 2
SIO2-T3	Blnk	2	0.04	0.06	< 0.01	< 5	< 1	0.01	1	160	----	141	0.01	2	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
WC-96	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: *David Buchler*



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC Pat 2-A
Tot QC 2
Date: 15-SEP-96
Invoice #: 19630693
P.O. #: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9630693

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CHEMEX MEAN	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----
105279	Dup1-01	5	2	0.4	80	0.2	3.18	3580	2.0	2	0.60	< 0.5	5	201	67
	Orig1-01	5	1	0.4	80	< 0.2	3.17	3280	2.0	6	0.60	< 0.5	6	210	66
105319	Dup2-01	310	100	46	2950	10.6	5.64	3240	1.5	2	0.40	2.5	4	51	13
	Orig2-01	230	96	42	3000	11.0	5.84	2040	1.5	< 2	0.39	2.5	4	58	12

CERTIFICATION: _____



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QC Par 2-B
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QC DATA OF CERTIFICATE A9630693

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CHEMEX MEAN	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105279	Dup1-01	2.31	0.74	0.44	145	5	0.14	28	60	< 2	302	0.11	84	< 10	80
	Orig1-01	2.29	0.72	0.43	150	5	0.14	27	60	2	281	0.10	83	< 10	82
105319	Dup2-01	3.27	4.61	0.10	90	4	0.32	2	340	1400	59	0.08	9	< 10	258
	Orig2-01	3.30	4.38	0.10	85	3	0.33	5	320	1400	57	0.09	9	< 10	258

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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE	A9630693
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(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 15-SEP-96.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	85	Geochem ring to approx 150 mesh
226	85	0-3 Kg crush and split
3202	85	Rock - save entire reject
285	85	ICP - HF digestion charge
287	85	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	85	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	85	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	85	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	85	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	85	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	85	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	85	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	85	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	85	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	85	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	85	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	85	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	85	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	85	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	85	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	85	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	85	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	85	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	85	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	85	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	85	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	85	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	85	Pb ppm: 24 element, rock & core	AAS	2	10000
582	85	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	85	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	85	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	85	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	85	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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Page N :1-A
Total Pa :3
Certificate Date: 15-SEP-96
Invoice No. :I9630693
P.O. Number :
Account :GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630693

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105279	205 226	5	1	0.4	80	< 0.2	3.17	3280	2.0	6	0.60	< 0.5	6	210	66
105280	205 226	145	2	1.6	60	0.2	1.36	90	1.0	< 2	0.82	1.5	1	172	34
105281	205 226	< 5	1	0.2	20	< 0.2	0.86	200	2.0	< 2	7.91	1.5	3	147	27
105282	205 226	< 5	1	0.4	110	0.2	2.78	300	3.5	8	2.87	< 0.5	5	213	45
105283	205 226	20	8	1.8	220	0.4	2.21	70	3.5	4	0.46	0.5	4	233	56
105284	205 226	15	26	4.0	220	0.4	1.14	40	5.5	< 2	13.00	2.5	4	148	47
105285	205 226	35	24	4.4	40	0.4	0.54	50	2.0	< 2	18.00	0.5	4	81	35
105286	205 226	10	12	2.2	460	0.6	1.62	30	3.0	< 2	0.93	2.0	4	204	66
105287	205 226	< 5	1	1.0	20	0.2	2.76	80	4.0	6	4.53	< 0.5	5	185	41
105288	205 226	< 5	2	0.4	190	0.4	2.25	320	3.0	8	0.59	1.0	5	167	64
105289	205 226	5	4	1.0	30	< 0.2	2.89	380	3.5	2	1.68	< 0.5	9	189	116
105290	205 226	< 5	4	2.2	70	0.4	3.42	200	5.5	4	3.61	2.0	9	178	87
105291	205 226	10	2	1.0	560	0.2	1.81	50	5.0	4	14.90	11.0	9	148	53
105292	205 226	< 5	1	1.6	110	1.2	4.46	130	9.0	4	0.44	3.0	15	240	81
105293	205 226	20	32	8.0	600	0.4	2.30	40	2.5	< 2	1.50	25.0	5	194	66
105294	205 226	< 5	2	1.2	90	0.4	7.82	330	6.0	< 2	1.21	3.0	3	97	12
105295	205 226	20	1	1.0	140	0.6	8.11	110	4.5	< 2	0.75	5.0	5	109	8
105296	205 226	15	4	1.6	1080	0.2	7.05	170	4.0	6	0.91	37.0	7	101	12
105297	205 226	< 5	6	1.4	10	< 0.2	5.22	510	3.5	6	1.27	< 0.5	9	188	34
105298	205 226	< 5	2	0.6	10	< 0.2	7.36	640	4.0	4	0.66	< 0.5	4	88	8
105299	205 226	< 5	6	0.6	30	1.6	6.43	1470	2.0	20	1.25	0.5	14	166	28
105300	205 226	15	2	0.2	10	4.2	6.24	1210	1.0	36	0.18	0.5	42	98	118
105301	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105302	205 226	< 5	10	1.0	70	1.2	7.72	910	3.0	16	0.49	2.0	8	168	45
105303	205 226	< 5	18	0.4	50	0.4	7.15	360	3.0	8	1.09	1.5	6	156	39
105304	205 226	< 5	2	0.2	10	< 0.2	8.10	2420	3.0	4	1.36	0.5	7	106	10
105305	205 226	< 5	1	< 0.2	10	< 0.2	7.92	2200	3.0	2	1.66	< 0.5	6	112	6
105306	205 226	< 5	1	< 0.2	40	0.2	7.36	2190	2.5	6	1.58	0.5	6	108	11
105307	205 226	< 5	6	2.2	60	0.6	6.37	280	2.5	2	1.18	3.0	5	171	30
105308	205 226	5	8	8.8	550	3.0	7.90	470	3.5	4	3.72	10.5	4	117	48
105309	205 226	5	14	3.0	150	0.4	8.12	2740	2.5	8	5.25	1.5	6	75	31
105310	205 226	20	22	14.0	770	1.8	6.93	580	2.0	< 2	2.14	1.0	3	66	10
105311	205 226	35	44	30	6060	8.8	6.50	510	2.5	2	0.74	21.5	5	112	36
105312	205 226	55	76	34	25500	9.6	5.72	420	2.0	< 2	0.41	132.0	4	117	31
105313	205 226	90	76	20	4420	8.4	5.01	2510	2.0	< 2	0.55	19.0	4	170	17
105314	205 226	150	102	32	14400	16.0	5.15	1370	1.5	< 2	0.48	90.0	5	102	39
105315	205 226	55	64	11.0	7790	5.0	7.14	560	1.0	< 2	0.22	43.5	4	96	7
105316	205 226	80	44	17.0	9980	8.4	4.77	600	0.5	< 2	0.53	63.5	3	81	9
105317	205 226	100	60	20	1750	5.8	6.48	540	1.0	< 2	0.54	3.0	4	53	7
105318	205 226	130	74	20.0	2870	6.4	5.46	1520	1.5	< 2	0.65	4.0	4	70	10

CERTIFICATION:

Hant Buchler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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Page Number : 1-B
Total Pages : 3
Certificate Date: 15-SEP-96
Invoice No. : I9630693
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630693

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105279	205 226	2.29	0.72	0.43	150	5	0.14	27	60	2	281	0.10	83	< 10	82
105280	205 226	16.85	0.05	0.35	180	7	0.01	8	1810	< 2	419	0.07	91	< 10	20
105281	205 226	15.30	0.08	0.26	1950	9	0.02	4	1450	< 2	339	0.03	56	20	16
105282	205 226	2.15	1.00	0.35	600	24	0.10	23	340	54	236	0.11	94	< 10	376
105283	205 226	2.76	0.98	0.26	120	15	0.05	22	620	310	21	0.08	142	< 10	806
105284	205 226	9.57	0.46	0.25	1655	18	0.03	14	2930	280	170	0.03	189	10	624
105285	205 226	5.51	0.23	0.11	1365	10	0.01	8	2240	284	188	0.01	106	10	20
105286	205 226	5.26	0.67	0.16	95	13	0.01	18	960	260	15	0.05	120	< 10	1490
105287	205 226	2.53	0.80	0.18	410	6	0.05	18	650	32	99	0.10	141	< 10	22
105288	205 226	1.11	0.57	0.16	85	5	0.06	18	680	18	41	0.08	133	< 10	340
105289	205 226	1.94	1.05	0.25	290	4	0.04	24	520	12	35	0.10	130	< 10	48
105290	205 226	5.07	1.39	0.62	1675	3	0.06	28	820	126	53	0.15	157	< 10	698
105291	205 226	7.22	0.63	0.66	3260	5	0.02	21	820	260	244	0.06	129	10	1935
105292	205 226	2.36	1.92	0.48	175	2	0.16	39	750	44	22	0.15	180	< 10	662
105293	205 226	3.79	0.67	0.37	285	10	0.04	50	1800	120	43	0.07	217	< 10	3230
105294	205 226	1.93	3.32	1.13	260	7	0.30	9	70	56	65	0.12	26	< 10	592
105295	205 226	3.54	3.53	1.07	150	5	0.30	6	100	74	62	0.12	4	< 10	842
105296	205 226	3.83	2.94	1.09	220	12	0.26	7	90	120	57	0.11	4	< 10	5410
105297	205 226	1.87	1.81	1.07	560	3	0.18	23	450	8	75	0.20	55	< 10	78
105298	205 226	1.34	3.49	0.83	145	7	0.22	10	230	18	42	0.13	29	< 10	36
105299	205 226	5.52	3.06	1.53	510	3	0.12	7	420	136	63	0.17	30	< 10	272
105300	205 226	13.95	3.20	2.55	515	5	0.14	9	390	520	16	0.19	19	< 10	330
105301	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105302	205 226	3.45	3.57	1.06	265	7	0.15	15	670	140	37	0.18	73	< 10	360
105303	205 226	2.40	3.29	0.88	320	4	0.22	12	630	52	64	0.17	58	< 10	216
105304	205 226	2.38	3.33	0.97	310	3	0.63	7	850	16	77	0.28	35	< 10	146
105305	205 226	2.50	2.17	0.83	235	3	2.05	6	950	30	76	0.32	27	< 10	68
105306	205 226	2.37	2.54	0.85	390	1	1.10	6	820	64	66	0.26	28	< 10	206
105307	205 226	1.80	2.79	0.90	270	7	0.18	15	450	78	52	0.15	81	< 10	356
105308	205 226	1.81	3.30	1.01	485	11	0.17	21	500	350	128	0.18	185	< 10	1110
105309	205 226	1.74	3.56	1.85	680	2	0.23	1	390	270	117	0.18	20	< 10	274
105310	205 226	1.37	2.62	0.43	115	3	0.23	4	350	140	56	0.16	13	< 10	238
105311	205 226	3.19	2.57	0.41	135	2	0.15	3	320	540	39	0.16	17	< 10	3450
105312	205 226	5.10	2.98	0.27	115	5	0.18	4	300	350	66	0.14	24	< 10	>10000
105313	205 226	4.51	3.33	0.25	125	5	0.18	5	280	120	75	0.11	23	< 10	2170
105314	205 226	4.84	3.62	0.19	115	3	0.19	3	280	152	60	0.11	22	< 10	7540
105315	205 226	2.26	6.17	0.08	55	4	0.33	3	370	120	77	0.09	10	< 10	3710
105316	205 226	2.19	3.31	0.12	100	3	0.19	4	240	290	59	0.07	8	< 10	4790
105317	205 226	2.56	4.53	0.21	105	3	0.42	1	330	270	89	0.09	8	< 10	252
105318	205 226	2.79	3.51	0.18	125	4	0.22	2	300	290	65	0.09	9	< 10	518

CERTIFICATION: *Hawthorne*



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page No. : 2-A
Total P. : 3
Certificate Date: 15-SEP-96
Invoice No. : 19630693
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630693

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105319	205 226	230	96	42	3000	11.0	5.84	2040	1.5	< 2	0.39	2.5	4	58	12
105320	205 226	105	60	28	1680	9.2	5.49	2810	2.0	< 2	0.60	1.0	4	77	12
105321	205 226	80	58	20.0	1400	5.8	5.93	3480	1.5	2	0.91	2.5	4	59	9
105322	205 226	65	40	26	2150	8.2	4.81	580	1.5	< 2	7.97	7.5	3	59	35
105323	205 226	25	108	12.0	1020	4.8	5.95	430	2.0	< 2	0.51	10.0	3	78	36
105324	205 226	10	284	6.4	1230	2.0	6.21	410	1.5	14	2.52	29.0	8	108	236
105325	205 226	< 5	4	2.2	70	0.2	5.93	1180	1.5	8	1.30	2.5	8	110	49
105326	205 226	< 5	8	2.0	40	< 0.2	6.64	1650	1.5	14	0.85	0.5	6	59	5
105327	205 226	< 5	2	1.8	40	< 0.2	7.51	860	2.0	4	1.96	< 0.5	5	63	9
105328	205 226	< 5	8	2.2	120	< 0.2	8.12	270	2.5	2	0.85	< 0.5	5	91	6
105329	205 226	< 5	2	1.8	10	< 0.2	7.13	560	2.0	< 2	2.19	< 0.5	6	96	4
105330	205 226	< 5	1	0.6	< 10	< 0.2	6.91	3980	2.0	2	1.06	1.0	7	339	7
105331	205 226	< 5	1	0.6	30	< 0.2	6.65	790	2.0	< 2	2.28	< 0.5	4	107	5
105332	205 226	< 5	2	0.4	10	< 0.2	6.69	1650	2.0	< 2	2.20	< 0.5	4	92	6
105333	205 226	< 5	2	0.4	10	< 0.2	6.90	1160	2.0	2	2.18	< 0.5	4	73	6
105334	205 226	< 5	2	< 0.2	< 10	< 0.2	6.56	2380	2.0	2	1.89	< 0.5	5	84	5
105335	205 226	< 5	1	0.4	10	< 0.2	6.65	420	2.0	2	2.14	< 0.5	4	117	11
105336	205 226	< 5	1	0.2	10	< 0.2	6.85	2290	2.5	2	0.88	0.5	5	85	7
105337	205 226	< 5	1	0.2	< 10	< 0.2	6.32	1960	2.5	2	1.44	0.5	5	95	6
105338	205 226	< 5	2	0.2	10	< 0.2	6.61	1750	2.5	2	1.47	0.5	5	111	9
105339	205 226	< 5	2	0.6	10	< 0.2	6.77	1750	2.5	8	1.48	0.5	5	161	7
105340	205 226	< 5	1	0.4	10	< 0.2	6.79	1920	2.5	2	1.92	< 0.5	5	131	6
105341	205 226	< 5	1	0.6	30	< 0.2	6.74	2360	2.5	< 2	2.55	< 0.5	4	106	4
105342	205 226	< 5	2	1.8	680	< 0.2	7.30	840	2.0	2	1.26	12.0	4	56	4
105343	205 226	< 5	8	1.6	30	0.6	7.22	1200	2.0	< 2	0.65	0.5	4	83	2
105344	205 226	< 5	2	1.2	60	0.2	7.12	1430	2.0	< 2	0.43	0.5	4	40	1
105345	205 226	< 5	6	1.4	10	0.4	7.33	960	1.5	< 2	0.28	< 0.5	3	92	4
105346	205 226	< 5	4	1.6	90	0.6	7.22	820	1.5	< 2	1.14	2.0	4	68	4
105347	205 226	< 5	4	1.2	230	0.2	6.71	1300	1.5	< 2	0.23	8.5	4	73	4
105348	205 226	< 5	4	4.2	1010	1.6	7.06	1150	1.5	< 2	0.57	27.5	21	336	15
105349	205 226	< 5	48	2.0	60	0.2	7.46	1250	1.5	< 2	0.24	1.5	4	106	3
105350	205 226	< 5	6	0.8	20	< 0.2	7.04	1250	1.5	< 2	0.35	0.5	3	53	2
171512	205 226	< 5	4	0.4	10	< 0.2	8.06	1910	4.5	< 2	4.76	< 0.5	21	113	35
171513	205 226	15	20	5.0	130	< 0.2	4.70	340	3.0	2	3.89	0.5	9	209	33
171514	205 226	< 5	12	1.8	80	0.4	6.86	600	3.0	2	0.67	< 0.5	4	68	13
171515	205 226	< 5	12	1.8	2800	< 0.2	6.57	500	2.5	2	0.43	33.5	3	40	5
171516	205 226	< 5	8	1.0	70	0.2	6.42	500	2.5	2	0.58	< 0.5	3	81	4
171517	205 226	10	16	8.8	290	0.6	3.15	170	2.5	2	2.18	1.5	6	203	44
171518	205 226	10	6	8.0	230	0.8	3.07	210	2.5	< 2	2.58	1.5	7	190	43
171519	205 226	< 5	2	7.8	600	0.4	2.71	520	2.0	2	4.12	2.0	7	188	42

CERTIFICATION: Hart Buchler



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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page No: 2-B
Total P: 3
Certificate Date: 15-SEP-96
Invoice No.: 19630693
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9630693

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105319	205 226	3.30	4.38	0.10	85	3	0.33	5	320	1400	57	0.09	9	< 10	258
105320	205 226	2.70	3.89	0.14	80	5	0.21	3	310	800	55	0.09	13	< 10	114
105321	205 226	2.43	4.25	0.17	140	3	0.27	4	310	300	78	0.09	12	< 10	186
105322	205 226	2.32	3.26	0.40	610	3	0.17	< 1	310	80	89	0.09	11	< 10	910
105323	205 226	2.20	2.86	0.31	75	3	0.30	1	330	144	49	0.11	12	< 10	1050
105324	205 226	4.54	2.75	1.30	650	3	0.27	5	630	120	125	0.14	24	< 10	2730
105325	205 226	3.93	2.47	1.48	930	2	0.10	7	680	90	68	0.13	35	< 10	434
105326	205 226	2.32	3.08	0.69	535	2	0.13	7	720	14	54	0.19	42	< 10	134
105327	205 226	1.43	3.14	0.63	310	1	0.18	7	730	36	130	0.16	30	< 10	122
105328	205 226	2.59	3.20	0.60	150	4	0.17	7	1010	40	101	0.17	26	< 10	184
105329	205 226	1.53	2.84	0.50	350	3	0.16	4	670	22	129	0.14	29	< 10	34
105330	205 226	1.47	2.83	0.29	200	2	0.16	11	760	42	90	0.14	41	< 10	70
105331	205 226	1.32	2.65	0.21	215	1	0.14	7	1230	44	298	0.11	38	< 10	44
105332	205 226	1.12	2.67	0.27	290	2	0.16	5	980	26	273	0.12	36	< 10	54
105333	205 226	1.02	2.80	0.34	255	3	0.37	8	1030	22	273	0.14	35	< 10	46
105334	205 226	1.18	2.70	0.31	260	2	0.31	7	1130	26	220	0.14	35	< 10	56
105335	205 226	1.51	2.88	0.31	270	5	0.14	7	1190	10	183	0.15	47	< 10	64
105336	205 226	1.25	3.01	0.40	95	3	0.14	8	570	92	89	0.15	51	< 10	66
105337	205 226	1.15	2.87	0.48	135	1	0.14	4	530	26	71	0.14	40	< 10	46
105338	205 226	1.25	2.98	0.50	115	3	0.15	9	640	14	79	0.15	60	< 10	66
105339	205 226	1.24	3.06	0.68	145	3	0.18	9	750	20	71	0.13	53	< 10	78
105340	205 226	1.53	3.10	0.53	195	2	0.16	7	480	34	110	0.14	28	< 10	52
105341	205 226	1.33	3.10	0.48	340	2	0.13	5	580	22	205	0.13	27	< 10	38
105342	205 226	1.98	2.95	0.27	225	1	0.24	4	730	72	112	0.14	24	< 10	1320
105343	205 226	1.74	2.98	0.11	260	2	0.39	4	680	250	114	0.15	12	< 10	94
105344	205 226	1.59	3.13	0.12	220	2	0.25	4	670	120	90	0.15	12	< 10	114
105345	205 226	3.11	3.09	0.12	200	1	0.18	4	640	28	51	0.16	13	< 10	18
105346	205 226	1.33	3.27	0.10	300	1	0.16	4	660	48	119	0.16	12	< 10	210
105347	205 226	1.20	3.62	0.09	55	1	0.21	8	500	16	71	0.12	12	< 10	758
105348	205 226	2.34	3.70	0.12	80	3	0.22	113	1420	56	84	0.16	58	< 10	3450
105349	205 226	1.39	4.32	0.11	70	3	0.22	8	690	16	63	0.14	13	< 10	196
105350	205 226	0.99	4.16	0.12	70	1	0.20	3	690	12	64	0.14	13	< 10	94
171512	205 226	4.96	3.78	1.04	965	1	0.48	35	2530	< 2	189	1.22	195	< 10	46
171513	205 226	2.76	2.11	1.39	760	3	0.06	43	1370	20	119	0.21	166	< 10	152
171514	205 226	1.61	3.52	1.01	90	4	0.11	10	310	40	30	0.14	20	< 10	66
171515	205 226	1.58	3.36	0.99	70	8	0.10	13	280	36	22	0.13	32	< 10	4060
171516	205 226	1.68	3.24	1.00	100	3	0.10	6	200	8	28	0.11	8	< 10	48
171517	205 226	2.01	1.54	0.38	340	7	0.03	46	3190	28	90	0.13	258	< 10	238
171518	205 226	1.95	1.56	0.41	420	6	0.03	39	1160	28	121	0.12	208	< 10	216
171519	205 226	1.44	1.35	0.40	595	3	0.02	28	520	12	204	0.12	141	< 10	650

CERTIFICATION: H. B. Bickler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page # : 3-A
Total F. : 3
Certificate Date: 15-SEP-96
Invoice No. : 19630693
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9630693

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171520	205 226	10	46	12.0	1480	2.2	5.05	130	3.0	6	1.18	5.5	7	194	113
171521	205 226	< 5	50	7.8	1200	2.2	3.53	230	2.0	2	1.25	4.5	8	241	95
171522	205 226	20	74	12.5	1470	2.6	7.75	270	3.5	12	0.46	5.0	6	164	44
171523	205 226	15	36	11.0	1130	2.6	6.17	200	3.0	4	0.65	4.5	5	204	42
171524	205 226	10	52	16.0	2010	3.0	6.31	180	4.0	8	1.28	11.5	4	208	55
171525	205 226	10	42	15.0	950	1.6	4.52	110	3.5	2	0.54	10.0	5	240	61

CERTIFICATION: _____



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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Page N : 3-B
 Total P. : 3
 Certificate Date: 15-SEP-96
 Invoice No. : 19630693
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS	A9630693
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SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171520	205 226	2.29	2.46	0.62	220	12	0.09	39	1210	88	52	0.15	186	< 10	654
171521	205 226	1.47	1.61	0.41	220	9	0.05	53	360	124	58	0.09	125	< 10	526
171522	205 226	4.84	3.67	0.86	95	15	0.15	31	1040	120	22	0.16	459	< 10	548
171523	205 226	1.85	2.94	0.77	140	10	0.11	33	550	128	30	0.12	157	< 10	596
171524	205 226	2.38	2.68	0.69	195	18	0.11	37	750	150	51	0.12	338	< 10	958
171525	205 226	3.00	1.44	0.35	85	27	0.10	76	740	36	20	0.09	510	< 10	894

CERTIFICATION: Hart Bickler

**1996 SUMMARY REPORT ON THE
FOOT 1 - 20, 37 - 80, 83 - 94, 180 - 183, 215 - 231,
11A - 12A, KINK 3, LOW 13 - 14**

**8.0 CHEMEX CERTIFICATES
VOLUME # 5**

093500



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 1 1 5 7

BILLING INFORMATION

Date: 18-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9631157

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
96	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	3480.00
Total Cost \$				3480.00
Client Discount (25%) \$				-870.00
Net Cost \$				2610.00
(Reg# R100938885) GST \$				182.70
TOTAL PAYABLE (CDN) \$				2792.70



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-A
 Tot QC 2
 Date: 18-SEP-96
 Invoice #: 19631157
 P.O. #: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9631157

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	2	75	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	81	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	----	7.80	1230	1.0	< 2	2.20	0.5	19	102	192
G96-TOT	std2	1	----	----	----	----	----	7.60	1180	0.5	10	2.11	1.5	20	97	183
G96-TOT	std1	2	----	----	----	----	----	7.62	1180	1.0	6	2.11	< 0.5	20	97	184
G96-TOT	std2	2	----	----	----	----	----	7.63	1160	0.5	6	2.11	2.0	20	100	184
G96-TOT	std1	3	----	----	----	----	----	7.77	1200	0.5	< 2	2.13	1.0	19	103	197
CHEMEX MEAN	---	---	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-90	std1	1	----	----	----	140	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	150	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	----	----	160	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	----	----	160	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	----	----	140	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	189	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	56	3.4	----	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	58	3.8	----	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std1	2	----	58	3.8	----	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std2	2	----	60	3.8	----	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std1	3	----	58	4.2	----	5.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	64	4.5	----	5.5	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	2	0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.30	30	< 0.5	2	< 0.01	< 0.5	1	< 1	< 1	< 1
SIO2-T3	Blnk	2	----	----	----	----	0.30	30	< 0.5	< 2	0.01	< 0.5	< 1	3	< 1	< 1
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	2
SL-96	std2	1	740	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std1	3	700	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	285	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	2	215	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: *Haut Buchler*



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-B
 Tot QC 2
 Date: 18-SEP-96
 Invoice #: 19631157
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9631157

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CKR-W	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	4.92	1.89	1.06	1120	10	1.08	25	680	----	238	0.37	164	30	190
G96-TOT	std2	1	4.79	1.79	1.04	1065	10	1.03	25	630	----	228	0.34	160	30	188
G96-TOT	std1	2	4.82	1.80	1.04	1040	11	1.02	24	620	----	229	0.36	161	20	190
G96-TOT	std2	2	4.80	1.86	1.04	1050	10	1.02	20	620	----	228	0.35	160	10	190
G96-TOT	std1	3	4.85	1.89	1.06	1045	9	1.06	21	640	----	234	0.38	162	20	190
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-90	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-90	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-96	std1	1	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	std2	1	----	----	----	----	----	----	----	----	128	----	----	----	----	----
GEO-96	std1	2	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	std2	2	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	std1	3	----	----	----	----	----	----	----	----	132	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.05	0.06	0.01	< 5	< 1	0.01	< 1	140	----	134	0.01	3	< 10	< 2
SIO2-T3	Blnk	2	0.05	0.07	0.01	< 5	< 1	< 0.01	< 1	160	----	138	0.01	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart/Schell



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P: 2-A
Tot QC 2
Date: 18-SEP-96
Invoice #: 19631157
P.O. #: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9631157

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105301	Dup1-01 Orig1-01	20 20	4 2	6.8 7.0	140 140	< 0.2 0.4	7.52 7.39	350 380	5.0 4.5	< 2 2	0.77 0.76	< 0.5 1.5	4 6	94 88	14 14
105442	Dup2-01 Orig2-01	< 5 < 5	2 2	0.4 0.4	< 10 < 10	< 0.2 < 0.2	2.62 2.72	4500 4630	0.5 0.5	8 6	0.80 0.80	< 0.5 0.5	9 9	166 225	31 35
105482	Dup3-01 Orig3-01	80 80	120 120	62 60	5240 5140	5.6 5.2	6.94 6.57	180 280	3.5 3.5	6 6	1.41 1.33	24.5 23.5	4 4	212 196	70 59

CERTIFICATION: *[Signature]*



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QC DATA OF CERTIFICATE A9631157

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105301	Dup1-01	1.69	3.76	0.87	160	12	0.18	16	330	24	44	0.18	64	< 10	160
	Orig1-01	1.68	3.65	0.85	170	10	0.17	19	380	30	43	0.17	63	< 10	156
105442	Dup2-01	1.73	0.74	0.78	505	1	0.04	31	250	< 2	85	0.13	63	< 10	68
	Orig2-01	1.79	0.76	0.81	515	1	0.04	32	260	< 2	88	0.14	65	< 10	74
105482	Dup3-01	2.80	3.84	0.91	230	25	0.14	43	660	224	90	0.15	502	< 10	2970
	Orig3-01	2.63	3.58	0.86	215	23	0.15	37	610	410	86	0.15	486	< 10	2860

CERTIFICATION: Hart Bichler



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A9631157

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9631157

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

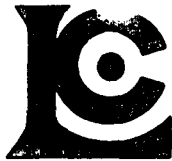
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 18-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	96	Geochem ring to approx 150 mesh
294	96	4-7 Kg crush and split
3202	96	Rock - save entire reject
285	96	ICP - HF digestion charge
287	96	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	96	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	96	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	96	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	96	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	96	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	96	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	96	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	96	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	96	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	96	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	96	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	96	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	96	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	96	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	96	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	96	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	96	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	96	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	96	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	96	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	96	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	96	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	96	Pb ppm: 24 element, rock & core	AAS	2	10000
582	96	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	96	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	96	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	96	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	96	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page 1 of 1-A
 Total f... : 3
 Certificate Date: 18-SEP-96
 Invoice No. : 19631157
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631157

SAMPLE	PREP CODE		Au ppb	As ppm	Sb ppm	Hg ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
	FA+AA						AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105301	205	294	20	2	7.0	140	0.4	7.39	380	4.5	2	0.76	1.5	6	88	14
105403	205	294	15	2	0.4	< 10	< 0.2	1.81	610	0.5	2	2.85	< 0.5	4	178	21
105404	205	294	< 5	1	0.2	80	< 0.2	3.21	9900	1.5	4	11.50	< 0.5	9	102	46
105405	205	294	< 5	2	0.8	10	< 0.2	2.02	370	0.5	< 2	1.00	< 0.5	3	241	28
105406	205	294	5	22	0.2	50	< 0.2	2.69	3250	0.5	2	1.08	< 0.5	23	166	76
105407	205	294	15	1	0.2	30	< 0.2	2.13	1530	0.5	6	0.28	< 0.5	8	260	68
105408	205	294	< 5	2	0.6	10	0.2	2.85	410	0.5	< 2	1.20	< 0.5	6	209	43
105409	205	294	< 5	2	0.4	10	0.2	3.56	400	0.5	< 2	4.72	0.5	7	189	33
105410	205	294	5	1	0.6	20	0.4	3.63	370	0.5	< 2	2.69	< 0.5	10	229	61
105411	205	294	5	2	1.0	30	0.4	4.36	650	1.0	< 2	0.26	< 0.5	15	184	99
105412	205	294	5	40	< 0.2	10	< 0.2	3.44	1540	0.5	< 2	0.67	< 0.5	12	241	99
105413	205	294	< 5	12	1.0	10	< 0.2	4.32	550	1.0	< 2	0.61	< 0.5	11	244	86
105414	205	294	20	2	2.8	30	0.8	4.58	250	1.5	< 2	0.71	< 0.5	15	225	121
105415	205	294	15	1	1.6	30	0.6	4.29	160	2.0	< 2	0.83	< 0.5	15	236	80
105416	205	294	< 5	2	< 0.2	30	< 0.2	3.12	410	1.5	< 2	0.62	< 0.5	11	229	63
105417	205	294	< 5	1	< 0.2	20	< 0.2	2.82	5940	0.5	< 2	0.16	< 0.5	5	98	48
105418	205	294	< 5	1	< 0.2	10	< 0.2	2.03	570	0.5	< 2	0.68	< 0.5	6	144	123
105419	205	294	< 5	2	< 0.2	30	< 0.2	1.11	1500	< 0.5	< 2	0.18	< 0.5	2	109	50
105420	205	294	< 5	1	< 0.2	10	< 0.2	2.92	2070	0.5	< 2	0.07	< 0.5	3	153	78
105421	205	294	< 5	2	0.6	20	< 0.2	1.81	180	0.5	< 2	0.08	< 0.5	3	158	69
105422	205	294	5	2	< 0.2	10	< 0.2	1.74	660	0.5	< 2	0.09	< 0.5	1	204	82
105423	205	294	< 5	1	< 0.2	10	< 0.2	1.74	1260	0.5	< 2	0.14	< 0.5	1	217	76
105424	205	294	< 5	1	0.4	10	< 0.2	1.02	480	< 0.5	< 2	0.18	< 0.5	1	227	58
105425	205	294	< 5	4	0.2	30	< 0.2	1.97	660	0.5	< 2	0.27	< 0.5	3	195	72
105426	205	294	5	1	0.8	50	< 0.2	1.87	210	2.0	< 2	0.13	< 0.5	5	223	64
105427	205	294	10	2	< 0.2	10	< 0.2	1.79	90	2.5	< 2	8.56	1.0	4	135	33
105428	205	294	< 5	2	0.2	< 10	< 0.2	4.04	>10000	5.5	6	0.48	< 0.5	12	121	56
105429	205	294	< 5	1	0.4	240	< 0.2	2.89	520	2.5	< 2	1.16	< 0.5	7	96	46
105430	205	294	10	6	1.6	330	0.4	2.35	100	3.0	< 2	0.14	1.5	5	197	60
105431	205	294	5	8	0.8	440	< 0.2	0.58	80	3.5	< 2	20.3	6.0	4	44	20
105432	205	294	< 5	4	1.2	30	< 0.2	0.38	90	1.0	4	>25.0	1.0	4	40	15
105433	205	294	< 5	10	0.6	320	< 0.2	3.70	200	6.5	6	1.25	12.5	9	190	79
105434	205	294	15	2	2.2	1080	0.4	1.30	110	2.5	< 2	18.45	18.0	6	52	96
105435	205	294	85	14	2.8	350	0.4	1.84	80	4.5	< 2	12.40	5.0	7	179	61
105436	205	294	< 5	2	1.6	80	< 0.2	5.08	230	8.5	< 2	0.56	1.5	17	193	83
105437	205	294	20	72	7.8	1150	2.6	2.76	60	3.5	2	0.41	64.5	7	260	161
105438	205	294	5	8	3.0	140	0.6	6.58	150	6.0	2	0.26	4.5	6	111	36
105439	205	294	< 5	1	1.8	340	1.6	7.09	300	7.0	< 2	0.89	8.0	4	119	13
105440	205	294	< 5	22	4.2	60	0.4	3.95	100	2.5	6	0.84	2.0	8	207	57
105441	205	294	< 5	8	0.4	10	< 0.2	3.52	4570	1.5	8	1.12	0.5	16	237	179

CERTIFICATION: Hart B...



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

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 Total P.: 3
 Certificate Date: 18-SEP-96
 Invoice No.: 19631157
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631157

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105301	205 294	1.68	3.65	0.85	170	10	0.17	19	380	30	43	0.17	63	< 10	156
105403	205 294	3.22	0.64	0.39	625	1	0.03	11	270	< 2	217	0.06	69	< 10	16
105404	205 294	1.43	1.05	0.72	2570	3	0.06	15	680	18	566	0.10	58	< 10	56
105405	205 294	3.07	0.49	0.52	540	8	0.03	19	250	10	61	0.09	87	< 10	84
105406	205 294	1.90	0.78	0.79	3040	3	0.04	97	1030	10	217	0.15	77	< 10	136
105407	205 294	1.31	0.72	0.46	275	1	0.03	57	160	2	42	0.12	69	< 10	104
105408	205 294	2.01	0.94	0.74	390	1	0.04	41	420	10	129	0.16	97	< 10	80
105409	205 294	2.16	0.92	1.00	835	1	0.06	38	1160	4	147	0.18	95	< 10	72
105410	205 294	2.72	1.12	0.98	505	3	0.05	72	740	10	137	0.18	115	< 10	182
105411	205 294	2.83	1.44	1.11	370	3	0.10	114	430	4	81	0.23	142	< 10	226
105412	205 294	2.29	1.12	0.89	1860	3	0.08	98	300	< 2	141	0.20	105	< 10	142
105413	205 294	2.70	1.44	0.93	1895	3	0.10	127	320	4	130	0.28	128	< 10	200
105414	205 294	3.43	1.74	0.81	1115	6	0.14	156	680	14	163	0.22	164	< 10	328
105415	205 294	3.28	1.72	0.66	745	5	0.14	110	750	14	163	0.18	152	< 10	100
105416	205 294	1.89	1.08	0.45	490	2	0.08	88	190	4	130	0.19	102	< 10	84
105417	205 294	1.40	0.85	0.27	180	< 1	0.05	26	130	4	61	0.18	65	< 10	46
105418	205 294	1.43	0.51	0.43	565	5	0.03	41	150	4	187	0.11	72	< 10	62
105419	205 294	0.77	0.27	0.15	100	5	0.01	12	120	4	62	0.06	37	< 10	22
105420	205 294	1.68	0.91	0.31	265	1	0.07	24	130	< 2	44	0.18	74	< 10	50
105421	205 294	2.80	0.37	0.22	170	< 1	0.03	31	130	< 2	59	0.10	63	< 10	38
105422	205 294	1.07	0.50	0.20	65	1	0.04	22	80	< 2	71	0.07	50	< 10	36
105423	205 294	0.91	0.34	0.19	80	1	0.05	22	70	< 2	100	0.05	48	< 10	46
105424	205 294	0.64	0.22	0.13	90	3	0.01	22	70	4	53	0.03	34	< 10	44
105425	205 294	0.95	0.62	0.24	165	14	0.04	47	80	< 2	32	0.07	76	< 10	108
105426	205 294	1.35	0.67	0.27	70	1	0.03	59	480	8	41	0.07	77	< 10	130
105427	205 294	9.47	0.12	0.64	1570	5	0.03	14	770	4	1300	0.08	67	< 10	56
105428	205 294	2.38	0.97	0.60	235	8	0.17	33	180	4	112	0.20	125	< 10	28
105429	205 294	1.08	1.10	0.30	115	4	0.13	30	120	20	121	0.12	94	< 10	494
105430	205 294	3.18	0.97	0.33	105	6	0.05	21	220	224	13	0.10	140	< 10	1225
105431	205 294	6.85	0.18	0.25	2050	13	< 0.01	5	2030	370	167	0.02	100	< 10	2230
105432	205 294	3.63	0.07	0.14	2280	5	0.01	3	1170	140	228	0.01	67	< 10	62
105433	205 294	2.12	1.57	0.40	290	2	0.11	38	730	140	21	0.17	180	< 10	2720
105434	205 294	11.50	0.50	0.62	3940	7	0.04	22	1010	380	320	0.05	93	< 10	4120
105435	205 294	6.60	0.71	0.47	2450	4	0.03	22	730	244	277	0.05	131	< 10	1460
105436	205 294	3.49	2.13	0.64	235	2	0.17	39	560	34	25	0.20	173	< 10	354
105437	205 294	4.09	0.96	0.28	130	56	0.08	135	530	164	41	0.08	1100	< 10	>10000
105438	205 294	3.47	2.51	0.76	135	8	0.19	38	210	80	27	0.13	175	< 10	866
105439	205 294	2.32	3.10	1.00	360	10	0.23	3	110	1200	78	0.14	18	< 10	2400
105440	205 294	3.78	1.36	0.68	385	18	0.13	41	410	80	73	0.12	149	< 10	380
105441	205 294	1.82	1.07	0.84	935	2	0.08	45	330	18	104	0.15	79	< 10	96

CERTIFICATION:

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WESTMIN RESOURCES LTD.
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Page # : 2-A
 Total F : 3
 Certificate Date: 18-SEP-96
 Invoice No. : 19631157
 P.O. Number :
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631157

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105442	205 294	< 5	2	0.4	< 10	< 0.2	2.72	4630	0.5	6	0.80	0.5	9	225	35
105443	205 294	< 5	1	0.8	< 10	< 0.2	3.34	620	0.5	8	0.29	< 0.5	7	201	54
105444	205 294	< 5	2	0.8	10	0.4	4.09	610	1.0	6	0.56	< 0.5	9	227	48
105445	205 294	< 5	1	0.8	10	0.2	3.52	360	1.0	2	0.61	< 0.5	8	204	51
105446	205 294	< 5	2	2.4	< 10	0.4	3.23	310	0.5	2	1.36	< 0.5	8	252	52
105447	205 294	< 5	2	0.4	< 10	< 0.2	2.34	810	0.5	2	0.50	< 0.5	5	225	35
105448	205 294	< 5	1	0.2	10	< 0.2	2.27	1000	0.5	2	0.21	< 0.5	5	180	56
105449	205 294	< 5	2	0.4	40	< 0.2	1.90	410	0.5	2	0.68	< 0.5	11	220	94
105450	205 294	< 5	1	1.2	< 10	< 0.2	2.45	290	0.5	< 2	0.74	< 0.5	6	217	55
105451	205 294	5	2	1.4	40	< 0.2	2.44	410	0.5	< 2	2.33	< 0.5	6	203	55
105452	205 294	< 5	2	0.2	30	< 0.2	2.13	450	0.5	< 2	1.99	< 0.5	7	249	63
105453	205 294	< 5	2	1.0	20	< 0.2	2.27	360	0.5	< 2	0.82	< 0.5	7	170	56
105454	205 294	< 5	1	3.0	20	< 0.2	3.33	190	2.0	4	1.14	< 0.5	12	265	169
105455	205 294	20	16	3.2	50	< 0.2	3.53	180	2.0	< 2	1.02	< 0.5	10	284	38
105456	205 294	< 5	2	0.4	< 10	< 0.2	7.06	3800	2.5	8	0.80	< 0.5	5	121	5
105457	205 294	< 5	2	0.2	< 10	< 0.2	6.28	2660	2.0	2	1.84	< 0.5	5	165	6
105458	205 294	< 5	1	0.4	20	< 0.2	8.72	950	3.0	10	2.94	< 0.5	8	105	11
105459	205 294	< 5	2	0.6	130	0.8	7.90	520	3.0	4	2.07	3.5	7	153	33
105460	205 294	< 5	1	0.6	20	< 0.2	7.18	470	2.0	10	3.40	0.5	7	121	9
105461	205 294	< 5	2	0.6	10	< 0.2	8.40	2440	3.0	10	1.34	< 0.5	8	135	8
105462	205 294	< 5	2	0.4	20	< 0.2	7.43	1900	2.5	10	3.39	< 0.5	8	92	7
105463	205 294	< 5	1	0.4	30	< 0.2	8.22	2100	2.5	6	1.67	< 0.5	9	96	9
105464	205 294	< 5	2	0.4	10	< 0.2	7.95	990	3.0	6	1.39	< 0.5	8	104	8
105465	205 294	< 5	1	0.6	20	0.4	7.97	1550	2.5	6	1.88	0.5	9	75	8
105466	205 294	< 5	2	0.4	20	0.2	7.90	1570	3.0	6	1.27	< 0.5	6	70	7
105467	205 294	< 5	2	0.4	10	< 0.2	8.09	2110	4.0	2	1.44	< 0.5	6	70	6
105468	205 294	< 5	1	0.4	10	< 0.2	7.72	2310	3.5	6	1.32	< 0.5	6	133	7
105469	205 294	< 5	2	0.8	150	< 0.2	7.81	1870	2.5	6	1.51	0.5	6	71	11
105470	205 294	< 5	44	0.8	90	0.4	8.33	860	3.5	10	1.90	0.5	8	74	14
105471	205 294	< 5	6	1.2	210	0.4	7.76	460	3.5	6	0.77	2.5	7	102	22
105472	205 294	10	16	3.2	550	1.0	7.39	310	3.0	8	1.00	2.5	6	104	33
105473	205 294	15	46	5.2	790	0.8	4.46	200	2.0	6	3.23	3.5	6	229	59
105474	205 294	25	14	11.5	190	0.4	3.95	180	2.5	4	3.15	< 0.5	6	184	33
105475	205 294	15	24	8.2	660	1.6	6.42	350	4.0	6	1.08	2.5	5	171	27
105476	205 294	50	34	11.5	2120	2.8	6.38	320	2.0	6	0.72	5.0	4	94	9
105477	205 294	75	42	17.0	2170	2.8	7.34	1560	1.5	2	0.69	0.5	5	100	8
105478	205 294	75	80	13.0	2150	3.4	8.01	760	1.0	2	1.01	< 0.5	5	83	9
105479	205 294	260	1200	16.0	9950	20.4	7.24	370	2.5	< 2	6.59	66.0	11	108	263
105480	205 294	40	48	6.4	2250	2.0	7.30	250	2.0	2	1.66	12.0	5	169	46
105481	205 294	65	78	16.0	2580	2.2	8.38	420	2.5	2	1.95	10.0	6	207	30

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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 Invoice No.: 19631157
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631157

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105442	205 294	1.79	0.76	0.81	515	1	0.04	32	260	< 2	88	0.14	65	< 10	74
105443	205 294	2.29	0.90	0.68	155	1	0.06	37	260	8	38	0.18	83	< 10	88
105444	205 294	2.71	1.17	0.88	170	< 1	0.07	44	490	6	48	0.24	121	< 10	104
105445	205 294	2.50	1.13	0.78	180	1	0.07	40	240	2	57	0.21	112	< 10	90
105446	205 294	2.45	1.07	0.83	410	2	0.05	44	280	6	95	0.17	122	< 10	106
105447	205 294	1.63	0.69	0.46	165	< 1	0.04	29	110	6	27	0.14	67	< 10	60
105448	205 294	1.48	0.77	0.43	85	1	0.05	27	130	8	67	0.14	62	< 10	76
105449	205 294	1.36	0.48	0.32	210	2	0.03	53	190	10	81	0.11	74	< 10	164
105450	205 294	1.57	0.86	0.39	345	1	0.04	46	120	6	71	0.09	82	< 10	96
105451	205 294	1.26	0.67	0.30	345	1	0.04	32	130	4	151	0.10	87	< 10	54
105452	205 294	1.10	0.55	0.27	210	1	0.05	38	80	4	212	0.08	89	< 10	56
105453	205 294	1.07	0.72	0.29	130	1	0.07	36	100	8	83	0.09	84	< 10	38
105454	205 294	2.32	1.52	0.45	615	1	0.07	48	350	40	62	0.13	129	< 10	178
105455	205 294	1.58	1.73	0.44	335	5	0.07	33	630	36	30	0.12	153	< 10	172
105456	205 294	1.45	3.00	0.84	155	3	1.25	3	640	30	57	0.16	30	< 10	72
105457	205 294	1.44	2.83	0.77	345	1	0.92	7	600	24	133	0.12	26	< 10	50
105458	205 294	2.43	3.89	1.01	500	4	1.03	8	920	14	215	0.26	43	< 10	98
105459	205 294	2.30	3.66	1.06	405	6	0.72	6	720	90	130	0.20	43	< 10	454
105460	205 294	2.86	2.85	0.98	575	3	1.54	8	870	20	156	0.26	42	< 10	100
105461	205 294	2.85	3.14	1.01	315	3	2.04	3	950	24	75	0.36	36	< 10	88
105462	205 294	2.64	2.98	0.90	615	3	1.73	3	910	24	179	0.36	32	< 10	80
105463	205 294	2.95	2.97	0.93	420	4	2.34	6	1020	20	97	0.43	37	< 10	84
105464	205 294	2.89	3.79	1.01	320	3	0.98	4	880	56	76	0.31	35	< 10	112
105465	205 294	2.61	3.50	0.97	450	3	1.58	4	920	70	97	0.31	34	< 10	150
105466	205 294	2.48	3.67	0.81	315	3	1.40	3	1020	20	84	0.34	26	< 10	68
105467	205 294	2.11	3.52	0.69	325	2	1.61	4	800	16	98	0.22	23	< 10	42
105468	205 294	2.02	3.84	0.69	330	3	0.91	3	730	44	82	0.25	22	< 10	74
105469	205 294	1.99	2.80	0.61	305	4	2.34	6	710	40	93	0.21	30	< 10	170
105470	205 294	2.80	4.04	1.01	375	3	1.01	7	990	46	85	0.31	42	< 10	172
105471	205 294	2.14	3.90	0.97	160	4	0.62	9	640	56	48	0.23	53	< 10	268
105472	205 294	2.25	3.79	1.01	210	7	0.27	10	540	70	67	0.20	71	< 10	348
105473	205 294	1.68	2.42	0.64	480	9	0.08	26	700	70	81	0.13	144	< 10	466
105474	205 294	2.08	1.88	0.41	345	4	0.07	23	800	28	106	0.14	111	< 10	134
105475	205 294	1.88	3.25	0.65	160	7	0.15	9	310	52	85	0.15	56	< 10	316
105476	205 294	2.12	1.71	0.20	110	6	1.86	4	310	76	54	0.11	12	< 10	448
105477	205 294	2.06	4.40	0.07	105	6	1.90	2	400	56	83	0.11	12	< 10	82
105478	205 294	2.61	4.01	0.08	145	6	2.72	2	460	64	107	0.10	13	< 10	48
105479	205 294	10.45	3.81	0.62	1365	4	0.46	6	770	360	551	0.21	39	< 10	5950
105480	205 294	2.60	3.65	0.64	430	3	0.19	3	530	120	107	0.18	36	< 10	1150
105481	205 294	2.88	3.95	0.58	385	9	0.22	14	610	80	113	0.22	118	< 10	900

CERTIFICATION: Stanley



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WESTMIN RESOURCES LTD.
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P.O. Number:
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631157

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105482	205 294	80	120	60	5140	5.2	6.57	280	3.5	6	1.33	23.5	4	196	59
105483	205 294	65	52	18.5	3500	5.6	5.95	480	1.5	< 2	0.94	8.5	3	172	8
105484	205 294	40	120	10.0	1970	5.2	6.33	620	2.0	2	0.72	7.5	4	117	37
105485	205 294	5	132	4.0	630	0.6	7.52	300	2.0	4	3.70	5.0	6	146	52
105486	205 294	30	38	12.0	1410	3.4	8.96	250	3.0	8	2.39	20.5	7	135	31
105487	205 294	< 5	16	3.4	180	< 0.2	6.83	1940	2.0	4	3.02	0.5	6	144	36
105488	205 294	15	52	28	670	2.0	6.65	200	3.0	8	1.31	9.0	8	184	57
105489	205 294	15	30	8.8	490	1.0	6.97	340	3.0	6	1.34	4.5	6	203	32
105490	205 294	< 5	6	1.0	30	< 0.2	1.81	980	< 0.5	< 2	0.40	< 0.5	11	167	75
105491	205 294	< 5	2	0.8	10	< 0.2	2.22	770	0.5	2	0.18	< 0.5	5	241	94
105492	205 294	10	1	1.2	210	< 0.2	1.75	240	1.0	< 2	2.06	0.5	5	154	52
105493	205 294	< 5	2	0.4	10	< 0.2	1.61	500	< 0.5	< 2	0.30	< 0.5	4	307	46
105494	205 294	50	102	62	580	5.6	2.66	90	3.0	4	2.01	9.0	5	332	144
105495	205 294	15	26	20	350	1.0	2.69	120	2.5	< 2	1.15	0.5	4	356	60
105496	205 294	25	46	28	350	2.4	2.35	90	2.5	2	1.13	0.5	4	306	80
105497	205 294	55	172	48	860	5.2	3.50	90	4.0	2	2.98	8.0	7	350	125

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 3-B
 Total f : 3
 Certificate Date: 18-SEP-96
 Invoice No. : 19631157
 P.O. Number :
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631157

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105482	205 294	2.63	3.58	0.86	215	23	0.15	37	610	410	86	0.15	486	< 10	2860
105483	205 294	3.87	1.93	0.13	115	5	1.50	4	280	100	83	0.12	15	< 10	770
105484	205 294	3.78	2.75	0.41	165	4	0.52	3	430	136	58	0.15	17	< 10	740
105485	205 294	3.53	3.84	1.00	635	3	0.20	6	840	40	282	0.24	28	< 10	554
105486	205 294	3.57	4.25	0.66	395	3	0.24	5	720	92	161	0.25	30	< 10	1910
105487	205 294	1.58	3.52	0.63	645	3	0.14	6	600	24	116	0.14	49	< 10	126
105488	205 294	2.16	3.27	0.67	230	16	0.15	36	1240	70	104	0.16	341	< 10	630
105489	205 294	2.02	3.51	0.68	225	10	0.19	24	870	44	79	0.15	186	< 10	308
105490	205 294	2.93	0.40	0.36	>10000	4	0.01	53	190	4	94	0.10	68	< 10	86
105491	205 294	2.74	0.52	0.28	665	23	0.08	37	180	< 2	50	0.11	90	< 10	50
105492	205 294	4.55	0.28	0.28	5740	22	0.01	26	210	4	213	0.07	97	< 10	400
105493	205 294	3.89	0.29	0.38	210	4	0.02	29	190	< 2	138	0.09	70	< 10	40
105494	205 294	2.41	1.20	0.32	150	38	0.02	140	4390	42	116	0.10	598	< 10	982
105495	205 294	2.21	1.09	0.28	210	5	0.07	48	350	8	68	0.08	131	< 10	228
105496	205 294	2.35	0.97	0.23	180	6	0.04	61	480	8	77	0.08	171	< 10	184
105497	205 294	3.18	1.58	0.33	290	35	0.07	148	4680	50	146	0.12	692	< 10	878

CERTIFICATION: Haut Buchler



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PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 1 3 5 4

BILLING INFORMATION

Date: 19-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9631354

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
23	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	2180.86
				Total Cost \$ 2180.86
				Client Discount (25%) \$ -545.22
				Net Cost \$ 1635.64
				(Reg# R100938885) GST \$ 114.49
				TOTAL PAYABLE (CDN) \$ 1750.13



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

TO: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 1-A
 Tot QC 1
 Date: 19-SEP-96
 Invoice #: 19631354
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9631354

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa %	(XRF)Spec Gr ppm S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
G96-TOT CHEMEX MEAN	Std1 1	---	---	---	---	---	---	---	---	---	---	7.75	1190	0.5	< 2	2.11	2.0	19	104	
GEO-90 CHEMEX MEAN	Std1 1	---	---	---	---	865	---	---	---	---	---	7.52	1155	0.5	< 2	2.04	1.0	16	97	
GEO-96 CHEMEX MEAN	Std1 1	---	---	---	---	---	---	56	4.6	170	5.8	---	---	---	---	---	---	---	---	
JWB-JV-1 CHEMEX MEAN	Std1 1	---	22.0	0.82	0.45	0.92	---	64	4.5	168	5.5	---	---	---	---	---	---	---	---	
NG-94 CHEMEX MEAN	Std1 1	335	22.2	0.83	0.45	0.95	---	---	---	---	---	---	---	---	---	---	---	---	---	
SILICA CHEMEX MEAN	Std1 1	---	---	---	---	---	2.62	---	---	---	---	---	---	---	---	---	---	---	---	
105682	Dupl-01	15	1.0	0.01	0.01	0.03	785	2.66	8	8.6	120	1.0	2.30	480	2.0	< 2	1.77	0.5	7	230
	Origl-01	15	1.0	0.01	0.01	0.03	780	2.70	8	8.2	90	0.8	2.32	370	2.0	2	1.80	0.5	7	233

CERTIFICATION: *Hart Bickler*

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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QC Pac 1-B
 Tot QC 1
 Date: 19-SEP-96
 Invoice #: I9631354
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9631354

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 1	197	4.95	1.86	1.07	1050	9	0.99	23	650	-----	231	0.35	160	20	242
	---	177	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-90 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	152	-----	-----	-----	-----	-----
	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
NG-94 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105682	Dupl-01	61	2.08	1.20	0.33	290	< 1	0.01	33	1990	34	72	0.09	160	< 10	304
	Origl-01	55	2.10	1.22	0.32	290	< 1	0.01	33	2060	30	73	0.09	162	< 10	298

CERTIFICATION: *Hart Buchler*

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9631354

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9631354

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	23	RUSH Geo ring to approx 150 mesh
295	23	RUSH crush and split (0-3 Kg)
3202	23	Rock - save entire reject
285	23	ICP - HF digestion charge
287	23	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	23	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	23	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	23	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	23	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	23	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	23	Ba ppm	XRF	10	50000
444	23	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	23	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	23	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKOD CORR	0.2	1000
20	23	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	23	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	23	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	23	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	23	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	23	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	23	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	23	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	23	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	23	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	23	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	23	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	23	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	23	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	23	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	23	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	23	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	23	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	23	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	23	Pb ppm: 24 element, rock & core	AAS	2	10000
582	23	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	23	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	23	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	23	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	23	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page No. : 1-A
 Total P. : 1
 Certificate Date: 19-SEP-96
 Invoice No. : 19631354
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9631354

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH																	
105682	255	295	15	1.0	0.01	0.01	0.03	780	2.70	8	8.2	90	0.8	2.32	370	2.0	2	1.80	0.5	7	233
105683	255	295	20	0.9	< 0.01	0.01	0.02	4320	2.69	24	4.6	490	0.8	6.62	440	3.0	4	1.68	3.0	5	151
105684	255	295	35	4.3	0.04	0.01	0.35	6320	2.79	54	7.8	4240	4.2	7.11	780	2.0	4	0.78	28.5	7	94
105685	255	295	840	>350	0.51	1.10	8.95	3940	3.39	790	>1000	74400	>100.0	3.28	140	< 0.5	< 2	1.68	>500	20	150
105686	255	295	165	6.8	0.01	0.02	0.11	7780	2.75	106	28	4100	6.8	7.25	490	1.5	4	1.25	12.5	6	109
105688	255	295	70	10.4	0.01	0.05	0.17	9120	2.69	108	39	2150	11.0	2.76	160	3.0	6	3.65	18.5	5	285
105689	255	295	165	14.8	0.02	0.05	0.21	8580	2.68	162	120	1640	15.4	2.78	220	3.5	6	3.18	19.0	6	260
105692	255	295	325	18.4	0.13	0.16	4.43	5230	2.96	700	19.0	6130	18.0	2.72	120	< 0.5	< 2	1.57	454	15	196
105694	255	295	< 5	2.5	0.06	0.01	0.29	12520	2.94	900	12.0	550	2.6	8.35	520	1.0	4	8.29	27.0	8	74
105695	255	295	165	11.5	0.13	0.17	3.22	3650	3.06	238	11.0	2730	12.8	2.26	240	< 0.5	< 2	6.77	326	26	173
105696	255	295	10	< 0.3	< 0.01	0.01	0.02	3570	2.71	24	19.5	70	< 0.2	1.55	270	1.0	< 2	19.60	2.5	4	116
105697	255	295	50	11.3	0.64	0.04	0.81	7330	3.00	38	35	1140	11.6	4.33	2030	< 0.5	2	4.72	78.5	11	125
105698	255	295	180	11.0	0.64	0.03	0.50	8450	3.00	28	40	900	10.8	4.09	360	0.5	6	5.24	46.5	10	143
105699	255	295	135	22.0	0.13	0.04	4.96	5640	2.92	80	28	6010	21.6	1.49	150	0.5	< 2	11.85	>500	19	106
105700	255	295	125	22.6	0.15	0.10	1.83	10950	3.03	144	26	1970	23.0	3.63	270	2.5	6	7.86	209	14	130
105701	255	295	400	94.5	1.38	0.14	13.10	5900	3.43	86	22	4110	95.0	2.11	320	< 0.5	Intf*	5.20	>500	67	75
105702	255	295	70	41.8	0.67	0.13	3.75	4810	3.10	1420	46	2380	45.0	1.74	280	< 0.5	< 2	11.10	386	21	108
105705	255	295	40	8.3	0.06	0.03	0.30	21100	2.77	38	13.5	620	8.0	2.62	170	1.5	< 2	8.69	26.5	8	173
105707	255	295	130	46.1	0.03	0.24	1.54	10080	2.82	80	61	4000	45.6	2.75	170	2.5	2	6.95	154.5	10	221
105708	255	295	1290	313	5.64	0.15	0.66	14270	3.22	172	34	940	>100.0	4.15	240	3.5	Intf*	6.31	61.5	30	171
105709	255	295	155	21.0	0.28	0.04	0.20	18600	2.74	56	35	630	19.6	6.32	420	6.0	12	0.93	15.0	6	227
105710	255	295	15	5.9	0.03	0.03	0.15	12260	2.76	24	8.2	530	6.2	5.41	1680	4.0	8	4.23	11.5	6	195
105711	255	295	5	1.6	< 0.01	0.02	0.09	8430	2.84	26	11.5	360	2.0	5.20	430	2.5	6	10.75	9.0	6	85

CERTIFICATION: *Hart Bichler*

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page N : 1-B
Total P. : 1
Certificate Date: 19-SEP-96
Invoice No. : 19631354
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9631354

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105682	255	295	55	2.10	1.22	0.32	290	< 1	0.01	33	2060	30	73	0.09	162	< 10	298
105683	255	295	20	2.02	3.39	0.77	300	7	0.12	14	900	48	90	0.17	111	< 10	294
105684	255	295	354	3.68	3.42	0.57	140	4	0.18	7	400	64	64	0.19	56	< 10	3440
105685	255	295	5440	15.15	1.60	0.30	340	47	0.05	74	430	>10000	73	0.07	205	40	>10000
105686	255	295	87	2.96	2.97	0.58	180	3	0.36	4	390	86	74	0.20	28	< 10	1355
105688	255	295	129	2.53	1.12	0.27	365	27	0.03	95	4710	340	158	0.08	480	10	1660
105689	255	295	173	3.60	1.17	0.28	275	27	0.03	124	5880	390	140	0.10	546	10	2100
105692	255	295	1395	7.48	1.14	0.18	380	28	0.04	23	170	1720	31	0.05	213	< 10	>10000
105694	255	295	623	5.41	3.71	0.75	1870	3	0.23	7	450	42	303	0.22	63	20	3030
105695	255	295	1490	11.80	0.95	0.21	1270	3	0.04	23	260	1720	48	0.05	183	20	>10000
105696	255	295	36	1.49	0.64	0.40	2590	1	0.02	22	1850	20	487	0.05	107	10	276
105697	255	295	6920	10.60	1.59	2.19	1455	< 1	0.13	19	260	310	132	0.10	32	30	8210
105698	255	295	7160	10.90	1.50	2.77	1720	1	0.14	32	230	174	161	0.10	54	30	5060
105699	255	295	1405	6.17	0.53	1.62	2030	< 1	0.01	30	730	292	358	0.04	152	10	>10000
105700	255	295	1715	9.73	1.54	4.27	1595	8	0.09	32	1020	740	277	0.07	452	30	>10000
105701	255	295	>10000	15.60	0.73	3.01	1520	5	0.07	25	Intf*	1300	197	0.03	383	40	>10000
105702	255	295	7550	9.59	0.64	5.63	1365	11	0.05	28	420	1200	396	0.03	384	40	>10000
105705	255	295	617	2.25	0.63	0.60	1320	4	0.03	33	570	114	238	0.08	130	10	3190
105707	255	295	271	4.19	1.05	1.22	1880	6	0.03	42	840	2400	208	0.09	163	10	>10000
105708	255	295	>10000	15.00	1.61	3.09	1545	23	0.13	136	Intf*	800	145	0.07	449	110	6160
105709	255	295	2890	3.69	2.47	0.96	275	14	0.14	66	1640	180	75	0.14	267	10	2010
105710	255	295	284	2.76	2.23	2.18	960	9	0.10	20	1030	174	127	0.08	220	10	1510
105711	255	295	45	2.70	2.43	5.71	1440	11	0.13	27	420	126	291	0.09	480	10	958

CERTIFICATION: _____

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 1 3 5 5

BILLING INFORMATION

Date: 13-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9631355

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
7	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu, Pb, Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg †	12.50	123.32	863.24

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	905.24
	Client Discount (25% of \$898.24) \$	<u>-224.56</u>
	Net Cost \$	680.68
	(Reg# R100938885) GST \$	<u>47.65</u>
	TOTAL PAYABLE (CDN) \$	728.33

* Not Subject to Discount

COPY



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 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pag 1-A
 Tot QC 1
 Date: 13-SEP-96
 Invoice #: 19631355
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9631355

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHRUSH FA	Ag g/t RUSHRUSH FA	Cu %	Pb %	ZnBa %	(XRF)Spec Gr ppm S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	-----	-----	0.007 0.008	-----	-----	-----	-----	-----	-----	-----	-----	-----
CD-1 CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	0.68 0.67	3.53 3.58	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-90 CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	870 865	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JV-1 CHEMEX MEAN	std1 1	0.55 0.62	178 175	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	std1 1	-----	-----	0.82 0.83	0.44 0.45	0.93 0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	2.60 2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	3.0 4.3	5.50 5.72	400 285	< 10 < 10	< 20 < 20	3.15 3.50	< 10 < 10	370 364	300 266

CERTIFICATION: David S. Baker

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Par 1-B
 Tot QC 1
 Date: 13-SEP-96
 Invoice #: 19631355
 P.O. #: 6406
 GP W

* PLEASE NOTE

QC DATA OF CERTIFICATE A9631355

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
GEO-90 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	std1 ---	1	9310 9440	19.05 19.35	0.7 0.8	2.65 2.70	960 961	10 < 10	1.40 1.38	11050 11050	0.006 0.007	230 221	0.30 0.29	120 115	560 191

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9631355

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9631355

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	7	RUSH Assay ring approx 150 mesh
295	7	RUSH crush and split (0-3 Kg)
3202	7	Rock - save entire reject
290	7	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	7	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	7	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	7	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	7	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	7	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	7	Ba ppm	XRF	10	50000
444	7	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	7	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	7	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	7	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	7	Ag ppm: high grade 24 element	AAS	0.5	200
4031	7	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	7	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	7	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	7	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	7	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	7	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	7	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	7	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	7	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	7	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	7	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	7	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	7	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	7	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	7	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	7	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	7	Pb %: high grade 24 element	AAS	0.001	10.00
4047	7	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	7	Tl %: A22 ICP package	ICP-AES	0.05	20.0
4049	7	V ppm: A22 ICP package	ICP-AES	10	50000
4050	7	Zn ppm: A22 ICP package	ICP-AES	20	100000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-A
 Total Pages: 1
 Certificate Date: 13-SEP-96
 Invoice No.: 19631355
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9631355

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH FA					%	S.G.				AAS									
105687	258	295	1.13	350	0.59	1.38	16.40	4810	3.73	0.11	0.26	0.036	>200	2.30	1200	< 10	< 20	0.50	2020	50	120
105690	258	295	0.75	45	0.39	0.67	13.30	10210	3.78	0.05	0.10	0.010	50.0	4.45	2300	< 10	< 20	1.45	1220	30	70
105691	258	295	0.21	38	0.26	0.72	7.19	8660	3.53	0.05	0.01	0.001	40.0	4.95	2200	< 10	< 20	3.75	630	10	110
105693	258	295	0.31	45	1.36	0.12	12.20	9600	3.62	0.03	< 0.01	0.001	46.0	5.15	2600	< 10	< 20	2.30	1080	50	110
105703	258	295	0.34	89	1.47	0.42	5.55	16810	3.43	< 0.01	0.01	< 0.001	88.0	4.65	1800	< 10	20	4.20	450	50	60
105704	258	295	< 0.07	31	0.15	0.34	1.85	31100	3.06	< 0.01	0.01	< 0.001	30.0	6.10	2000	< 10	20	10.05	160	20	60
105706	258	295	0.96	192	0.12	1.55	7.27	13890	3.98	0.45	0.07	0.003	195.0	0.70	4000	< 10	< 20	5.60	530	< 10	110

CERTIFICATION: _____

*Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 11-B
Total Pages: 11
Certificate Date: 13-SEP-96
Invoice No.: 19631355
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE

CERTIFICATE OF ANALYSIS A9631355

SAMPLE	PREP CODE	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
105687	258 295	6320	21.3	0.9	0.25	230	70	< 0.05	130	1.380	30	< 0.05	300	>100000
105690	258 295	4060	21.7	1.7	0.25	800	< 10	0.05	10	0.631	70	0.05	100	>100000
105691	258 295	2730	18.35	1.9	0.25	660	10	0.05	< 10	0.679	170	0.05	90	67400
105693	258 295	14010	18.15	2.1	0.35	550	< 10	0.05	40	0.106	60	0.15	180	>100000
105703	258 295	14810	19.20	1.7	3.30	1850	< 10	< 0.05	10	0.398	170	0.05	60	51800
105704	258 295	1560	8.25	2.1	3.70	2040	< 10	0.05	10	0.309	320	0.10	210	18120
105706	258 295	1260	28.2	0.1	0.25	1300	40	< 0.05	80	1.500	140	< 0.05	170	67500

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 1 9 7 2

BILLING INFORMATION

Date: 2-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9631972

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
3	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	369.96

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	411.96
	Client Discount (25% of \$404.96) \$	-101.24
	Net Cost \$	310.72
	(Reg# R100938885) GST \$	21.75
	TOTAL PAYABLE (CDN) \$	332.47

*Not Subject to Discount



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British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9631972

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9631972

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

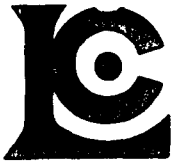
Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	3	RUSH Assay ring approx 150 mesh
295	3	RUSH crush and split (0-3 Kg)
3202	3	Rock - save entire reject
290	3	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	3	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	3	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	3	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	3	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	3	Ba ppm	XRF	10	50000
444	3	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	3	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	3	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	3	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	3	Ag ppm: high grade 24 element	AAS	0.5	200
4031	3	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	3	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	3	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	3	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	3	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	3	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	3	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	3	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	3	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	3	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	3	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	3	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	3	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	3	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	3	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	3	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	3	Pb %: high grade 24 element	AAS	0.001	10.00
4047	3	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	3	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	3	V ppm: A22 ICP package	ICP-AES	10	50000
4050	3	Zn ppm: A22 ICP package	ICP-AES	20	100000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page No. : 1-A
 Total P. : 1
 Certificate Date: 01-OCT-96
 Invoice No. : 19631972
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS	A9631972
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SAMPLE	PREP CODE	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	Zn %	Ba (XRF) %	Spec Gr ppm	S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
106109	258 295	1.71	450	0.70	2.50	14.80	120	4.21	0.17	0.04	0.003	>200	0.35	100	< 10	< 20	4.35	1600	10	90	
106110	258 295	3.57	406	0.53	1.83	15.50	455	3.94	0.59	0.11	0.003	>200	1.05	400	< 10	< 20	1.80	1660	10	190	
106111	258 295	0.96	168	0.23	0.75	14.10	235	3.71	0.36	0.05	0.005	166.0	1.05	300	< 10	< 20	1.20	1720	10	190	

CERTIFICATION: Hart Buchler



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PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
Total Pages: 1
Certificate Date: 01-OCT-96
Invoice No.: 19631972
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9631972

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
106109	258	295	7400	28.5	< 0.1	0.10	1250	50	< 0.05	40	2.47	80	< 0.05	10	>100000
106110	258	295	5690	28.9	0.4	0.25	540	50	< 0.05	40	1.800	50	< 0.05	230	>100000
106111	258	295	2450	28.3	0.3	0.55	650	10	< 0.05	120	0.729	30	< 0.05	40	>100000

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 1 9 7 3

BILLING INFORMATION

Date: 2-OCT-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9631973

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	379.28

Total Cost \$	379.28
Client Discount (25%) \$	-94.82
Net Cost \$	284.46
(Reg# R100938885) GST \$	19.91
TOTAL PAYABLE (CDN) \$	304.37



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9631973

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9631973

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	4	RUSH Geo ring to approx 150 mesh
295	4	RUSH crush and split (0-3 Kg)
3202	4	Rock - save entire reject
285	4	ICP - HF digestion charge
287	4	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	4	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	4	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	4	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	4	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	4	Ba ppm	XRF	10	50000
444	4	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	4	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	4	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	4	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	4	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	4	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	4	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	4	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	4	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	4	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	4	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	4	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	4	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	4	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	4	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	4	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	4	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	4	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	4	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	4	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	4	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	4	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	4	Pb ppm: 24 element, rock & core	AAS	2	10000
582	4	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	4	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	4	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	4	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	4	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number: 11-A
Total Fees: \$1
Certificate Date: 01-OCT-96
Invoice No.: 19631973
P.O. Number:
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9631973

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH					%	S.G.				AAS									
106107	255	295	15	0.5	< 0.01	< 0.01	0.01	4170	2.70	14	4.8	20	0.6	7.92	350	3.0	< 2	0.84	< 0.5	4	95
106108	255	295	60	4.2	0.01	< 0.01	0.07	3850	2.74	44	28	1410	4.0	7.87	260	3.5	< 2	1.77	6.5	4	122
106112	255	295	10	14.5	0.05	< 0.01	0.45	1375	2.69	24	22	2090	14.0	8.51	1280	2.5	< 2	3.08	40.0	2	33
106113	255	295	< 5	0.7	< 0.05	< 0.01	0.09	1010	2.69	4	4.0	370	0.8	6.36	990	2.0	< 2	0.85	6.5	3	78

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page No. : 1-B
Total F : 1
Certificate Date: 01-OCT-96
Invoice No. : 19631973
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS

A9631973

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
106107	255	295	10	1.62	2.51	0.58	155	1	2.33	4	500	40	57	0.18	21	< 10	156
106108	255	295	143	2.12	3.81	0.94	380	11	0.19	17	440	96	74	0.18	150	< 10	724
106112	255	295	440	2.29	2.61	5.20	955	4	0.30	1	350	204	80	0.15	27	< 10	3790
106113	255	295	40	1.39	2.13	3.00	360	1	0.16	3	270	56	24	0.12	17	< 10	858

CERTIFICATION: Hart Bechler



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PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 0 6 3

BILLING INFORMATION

Date: 4-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632063

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	255 - RUSH Geo ring to approx 150 mesh	3.75		
	272 - RUSH 4-7 Kg crush and split	5.25		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu, Pb, Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	96.17	480.85

Total Cost \$	480.85
Client Discount (25%) \$	-120.21
Net Cost \$	360.64
(Reg# R100938885) GST \$	25.24
TOTAL PAYABLE (CDN) \$	385.88



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632063

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632063

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 3-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	5	RUSH Geo ring to approx 150 mesh
272	5	RUSH 4-7 Kg crush and split
3202	5	Rock - save entire reject
285	5	ICP - HF digestion charge
287	5	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	5	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	5	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	5	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	5	Ba ppm	XRF	10	50000
444	5	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	5	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	5	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	5	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	5	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	5	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	5	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	5	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	5	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	5	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	5	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	5	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	5	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	5	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	5	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	5	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	5	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	5	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	5	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	5	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	5	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	5	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	5	Pb ppm: 24 element, rock & core	AAS	2	10000
582	5	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	5	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	5	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	5	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	5	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page er : 1-A
Total s : 1
Certificate Date: 03-OCT-96
Invoice No. : 19632063
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9632063

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH	RUSH	RUSH	%	%	%	ppm	S.G.	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
106128	255	272	65	2.9	0.02	0.01	0.05	10020	2.73	98	32	260	3.0	3.35	80	4.0	< 2	0.16	1.5	6	358
106129	255	272	275	22.5	0.03	0.17	0.49	6520	2.92	600	145	2130	22.4	2.17	40	5.5	8	2.19	39.0	8	320
106136	255	272	480	113.0	2.57	0.25	5.64	8880	3.26	122	42	5370	>100.0	6.44	160	1.5	Intf*	5.84	>500	24	85
106137	255	272	35	1.2	0.01	< 0.01	0.04	15740	2.82	60	25	1550	1.4	12.40	430	4.0	12	2.62	5.0	9	104
106138	255	272	5	1.2	0.02	< 0.01	0.05	5750	2.91	44	33	120	1.4	4.94	490	2.0	< 2	10.95	2.5	12	133

CERTIFICATION: *Hart Buchler*

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1 of 1-B
Total: 1
Certificate Date: 03-OCT-96
Invoice No.: 19632063
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9632063

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
106128	255	272	73	3.51	1.22	0.32	70	9	0.08	83	360	44	20	0.11	201	< 10	398
106129	255	272	145	8.56	0.84	0.24	395	87	0.03	223	2160	1500	94	0.08	1250	20	4850
106136	255	272	>10000	11.40	3.17	2.95	1220	6	0.21	9	Intf*	2400	155	0.09	289	40	>10000
106137	255	272	154	3.31	5.99	2.42	545	15	0.32	19	480	54	97	0.19	248	< 10	536
106138	255	272	201	5.28	2.47	5.79	795	6	0.14	33	120	12	361	0.08	352	30	382

CERTIFICATION:

Handwritten signature

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 0 6 4

BILLING INFORMATION

Date: 4-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632064

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	258 - RUSH Assay ring approx 150 mesh	3.75		
	272 - RUSH 4-7 Kg crush and split	5.25		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	124.67	748.02

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	790.02
	Client Discount (25% of \$783.02) \$	-195.76
	Net Cost \$	594.26
	(Reg# R100938885) GST \$	41.60
	TOTAL PAYABLE (CDN) \$	635.86

*Not Subject to Discount



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot Q: 1
 Date: 03-OCT-96
 Invoice #: 19632064
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632064

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	ZnBa %	(XRF Spec Gr ppm S.G.)	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	0.007 0.008	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	0.68 0.67	3.52 3.58	----	----	----	----	----	----	----	----	----	----
G96-TOT CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	5.85	400	< 10	20	3.25	< 10	380	280
JV-1 CHEMEX MEAN	Std1 1	0.55 0.62	175 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.82 0.83	0.44 0.45	0.94 0.95	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	2.63 2.62	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	5.0 4.3	----	----	----	----	----	----	----	----

CERTIFICATION: *[Signature]*



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PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P: 1-B
Tot Q: 1
Date: 03-OCT-96
Invoice #: 19632064
P.O. #: 6406
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9632064

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT CHEMEX MEAN	Std1 1	9820	20.1	0.9	2.85	1010	< 10	1.50	11440	----	240	0.30	120	580
JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	0.006 0.007	----	----	----	----

CERTIFICATION: Hunter Becker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632064

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632064

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 3-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	6	RUSH Assay ring approx 150 mesh
272	6	RUSH 4-7 Kg crush and split
3202	6	Rock - save entire reject
290	6	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	6	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	6	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	6	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	6	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	6	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	6	Ag ppm: high grade 24 element	AAS	0.5	200
4031	6	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	6	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	6	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	6	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	6	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	6	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	6	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	6	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	6	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	6	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	6	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	6	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	6	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	6	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	6	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	6	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	6	Pb %: high grade 24 element	AAS	0.001	10.00
4047	6	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	6	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	6	V ppm: A22 ICP package	ICP-AES	10	50000
4050	6	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

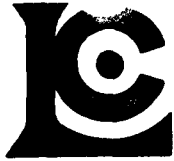
Page: 1 of 1
 Total: 1
 Certificate Date: 03-OCT-96
 Invoice No.: 19632064
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632064

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
	RUSH	FA	RUSH	FA						AAS								
106130	258	272	0.82	247	0.22	1.24	6.84 340 4.30	0.12	0.11	0.003 >200	0.35	300	< 10	40	4.05	660	30	160
106131	258	272	0.27	21	0.01	0.12	0.19 7900 2.75	0.04	0.03	< 0.001 17.0	2.35	400	< 10	< 20	1.20	10	10	420
106132	258	272	1.30	319	0.41	1.25	9.20 725 4.03	0.21	0.18	0.005 >200	0.80	300	< 10	20	1.10	750	30	130
106133	258	272	0.79	302	0.44	1.46	10.30 260 4.53	0.26	0.08	0.003 >200	0.35	200	< 10	< 20	0.85	970	50	120
106134	258	272	0.58	185	0.71	1.35	14.80 175 4.62	0.26	0.02	0.002 178.0	0.35	100	< 10	< 20	1.05	1490	40	90
106135	258	272	0.69	202	1.66	0.80	20.1 465 4.46	0.25	0.03	0.003 200	0.45	300	< 10	20	0.95	2260	70	120

CERTIFICATION: H. J. Tucker



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British Columbia, Canada V7J 2C1
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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page : 1-B
Total : 1
Certificate Date: 03-OCT-96
Invoice No. : 19632064
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS

A9632064

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
106130	258	272	2430	>30.0	0.1	0.05	960	60	< 0.05	120	1.210	230	< 0.05	50	69400
106131	258	272	220	6.65	0.6	0.20	260	50	< 0.05	260	0.107	180	0.05	1240	2160
106132	258	272	4310	30.0	< 0.1	0.50	520	70	< 0.05	130	1.220	70	< 0.05	290	84800
106133	258	272	4780	>30.0	< 0.1	0.35	380	30	< 0.05	50	1.420	30	< 0.05	60	94700
106134	258	272	7670	>30.0	< 0.1	0.25	410	50	< 0.05	30	1.300	10	< 0.05	40	>100000
106135	258	272	17340	>30.0	0.1	0.25	620	30	< 0.05	20	0.759	10	< 0.05	40	>100000

CERTIFICATION:

[Handwritten Signature]



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 4 3 1

BILLING INFORMATION

Date: 4-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632431

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
13	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1603.16

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
2	3222 - 5 gal. pail and lid	7.00*		14.00

	Total Cost \$	1652.16
	Client Discount (25% of \$1638.16)\$	<u>-409.54</u>
	Net Cost \$	1242.62
	(Reg# R100938885) GST \$	<u>86.98</u>
	TOTAL PAYABLE (CDN) \$	1329.60

*Not Subject to Discount



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212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 1-A
 Tot C 1
 Date: 03-OCT-96
 Invoice #: 19632431
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632431

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHRUSH	Ag g/t FA	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	0.007 0.008	-----	-----	-----	-----	-----	-----	-----	-----
CD-1 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	0.68 0.67	3.52 3.58	-----	-----	-----	-----	-----	-----	-----	-----	-----
JV-1 CHEMEX MEAN	Std1 1	0.58 0.62	179 175	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	-----	0.83 0.83	0.45 0.45	0.95 0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	2.59 2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	4.0 4.3	5.55 5.72	400 285	< 10 < 10	< 20 < 20	3.15 3.50	< 10 < 10	380 364	290 266
SY-3 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	445	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Hart Buchler



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F
 Tot C
 Date:
 Invoice #:
 P.O. #:

1-B
 1
 03-OCT-96
 19632431
 6406
 GP W

QC DATA OF CERTIFICATE

A9632431

STD/DUP/BLANK DESCRIPTION	QC PAGE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	TYPE	NO.	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
CCU-1B CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1	1	9330 9440	19.05 19.35	0.8 0.8	2.70 2.70	980 961	< 10 < 10	1.45 1.38	11160 11050	0.009 0.007	230 221	0.30 0.29	110 115	160 191
SY-3 CHEMEX MEAN	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: *[Signature]*



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 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632431

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632431

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O.#: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 3-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	13	RUSH Assay ring approx 150 mesh
295	13	RUSH crush and split (0-3 Kg)
3202	13	Rock - save entire reject
290	13	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	13	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	13	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	500
301	13	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	13	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	13	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	13	Ba ppm	XRF	10	50000
444	13	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	13	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	13	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	13	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	13	Ag ppm: high grade 24 element	AAS	0.5	200
4031	13	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	13	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	13	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	13	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	13	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	13	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	13	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	13	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	13	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	13	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	13	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	13	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	13	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	13	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	13	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	13	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	13	Pb %: high grade 24 element	AAS	0.001	10.00
4047	13	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	13	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	13	V ppm: A22 ICP package	ICP-AES	10	50000
4050	13	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
 Total: 1
 Certificate Date: 03-OCT-96
 Invoice No.: 19632431
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9632431

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRF)	Spec Gr	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH FA						S.G.				AAS									
105726	258	295	0.10	< 3	< 0.01	< 0.01	0.02	5430	2.77	< 0.01	< 0.01	< 0.001	2.0	1.95	1900	< 10	< 20	0.95	< 10	< 10	210
105727	258	295	0.10	6	0.06	0.10	0.31	7510	2.81	< 0.01	< 0.01	< 0.001	8.0	2.40	500	< 10	< 20	1.10	10	< 10	310
105728	258	295	0.72	68	0.31	1.50	3.94	420	4.06	0.10	0.06	0.003	66.0	0.35	400	< 10	< 20	4.60	190	< 10	100
105729	258	295	0.51	88	0.79	0.25	5.69	265	4.27	0.10	0.10	0.003	89.0	0.30	200	< 10	20	5.05	490	120	70
105730	258	295	0.48	21	0.61	0.04	1.57	315	4.48	0.05	0.01	< 0.001	20.0	0.35	300	< 10	< 20	4.20	170	160	110
105731	258	295	0.51	46	0.77	0.05	2.93	220	4.44	0.08	0.05	0.001	44.0	0.30	100	< 10	< 20	4.65	280	190	80
105732	258	295	0.38	41	0.51	0.05	0.50	440	3.63	0.03	0.09	< 0.001	41.0	0.25	300	< 10	< 20	14.25	30	60	60
105733	258	295	1.95	282	2.40	0.15	6.24	685	4.41	0.11	0.78	0.001	>200	0.40	400	< 10	40	3.70	690	70	80
105734	258	295	0.96	115	1.36	0.02	0.38	1280	3.37	0.06	0.36	< 0.001	114.0	0.50	400	< 10	< 20	15.60	40	30	50
105735	258	295	0.72	95	1.12	0.06	2.15	490	4.63	0.08	0.24	< 0.001	92.0	0.35	400	< 10	100	5.25	230	110	80
105736	258	295	0.27	25	2.44	0.04	1.86	1705	4.33	0.02	0.02	< 0.001	26.0	0.85	100	< 10	280	4.85	180	70	80
105737	258	295	0.10	12	1.09	0.01	0.33	3370	2.80	< 0.01	< 0.01	< 0.001	13.0	3.20	3400	< 10	100	14.45	30	10	170
105738	258	295	< 0.07	12	0.02	0.05	0.03	7580	2.80	< 0.01	< 0.01	< 0.001	14.0	4.85	7800	< 10	960	6.05	< 10	10	120

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total : 1
Certificate Date: 03-OCT-96
Invoice No. : 19632431
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9632431

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105726	258	295	50	4.15	0.8	0.20	150	< 10	< 0.05	50	0.010	40	0.05	90	180
105727	258	295	590	6.75	0.9	0.20	170	20	< 0.05	140	0.104	40	0.05	560	3260
105728	258	295	3210	>30.0	< 0.1	0.05	620	10	< 0.05	50	1.530	150	< 0.05	60	38300
105729	258	295	8350	>30.0	< 0.1	0.05	730	30	< 0.05	40	0.245	200	< 0.05	20	54700
105730	258	295	6420	>30.0	< 0.1	0.05	550	40	< 0.05	40	0.047	160	< 0.05	20	15700
105731	258	295	7830	>30.0	< 0.1	0.05	660	40	< 0.05	40	0.059	180	< 0.05	< 10	28600
105732	258	295	5040	23.9	< 0.1	0.10	1830	10	< 0.05	10	0.055	460	< 0.05	< 10	4920
105733	258	295	24500	>30.0	0.1	0.20	650	10	< 0.05	20	0.143	130	< 0.05	20	60300
105734	258	295	13570	18.45	0.1	0.20	2130	10	< 0.05	10	0.025	630	< 0.05	30	3860
105735	258	295	11610	>30.0	< 0.1	0.05	660	30	< 0.05	30	0.058	240	< 0.05	30	21700
105736	258	295	25100	>30.0	0.1	0.15	640	20	< 0.05	20	0.040	180	< 0.05	30	18420
105737	258	295	10540	5.30	0.5	0.90	1880	< 10	< 0.05	< 10	0.011	260	< 0.05	20	3200
105738	258	295	200	5.35	1.5	3.00	1450	< 10	0.05	< 10	0.056	180	0.05	10	300

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 4 3 9

BILLING INFORMATION

Date: 23-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632439

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex	0.00		
	384 - Ag FA g/t	10.50		
	312 - Pb %	8.00		
	316 - Zn %	8.00	26.50	26.50
Total Cost \$				26.50
Client Discount (25%) \$				-6.63
Net Cost \$				19.87
(Reg# R100938885) GST \$				1.39
TOTAL PAYABLE (CDN) \$				21.26



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632439

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632439

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	1	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000
312	1	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1
Total: 1
Certificate Date: 21-SEP-96
Invoice No.: 19632439
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS

A9632439

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Zn %								
175087	244 --	164	1.26	16.50								

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 5 7 1

BILLING INFORMATION

Date: 23-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632571

Terms: Payment due on receipt of invoice
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charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 5 7 1

BILLING INFORMATION

Date: 23-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632571

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632571

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632571

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE

P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 21-SEP-96
Invoice No. : 19632571
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9632571

SAMPLE	PREP CODE	Zn %																		
105312	244 --	1.71																		

CERTIFICATION:



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 0 1

BILLING INFORMATION

Date: 25-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632901

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
10	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	948.20

Total Cost	\$	948.20
Client Discount (25%)	\$	<u>-237.05</u>
Net Cost	\$	711.15
(Reg# R100938885) GST	\$	<u>49.78</u>
TOTAL PAYABLE (CDN)	\$	760.93



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC # 1-A
 Total 1
 Date: 25-OCT-96
 Invoice #: 19632901
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9632901

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRFS) % ppm	Spec Gr S.G.	As ppm	Sb ppm	Hg Ag ppb AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	7.61	1190	0.5	< 2	2.18	0.5	20	95
		-----	-----	-----	-----	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97
GEO-96 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	1240	-----	58	4.8	190	6.2	-----	-----	-----	-----	-----	-----	-----
		-----	-----	-----	-----	-----	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	22.3	0.83	0.45	0.93	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		-----	22.2	0.83	0.45	0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		-----	-----	-----	-----	-----	2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96 CHEMEX MEAN	Std1 1	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

Hart Beckler



Chemex Labs Ltd.

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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F
 Tot
 Date: 25-OCT-96
 Invoice #: 19632901
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9632901

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
G96-TOT CHEMEX MEAN	Std1 ---	1 ---	181 177	4.76 4.41	1.74 1.86	1.02 1.03	1080 927	10 9	0.98 1.03	25 20	640 648	----- -----	231 226	0.32 0.35	160 156	10 20	188 186
GEO-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	126 120	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
WC-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: *Terry Tucker*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632901

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632901

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 25-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	10	RUSH Geo ring to approx 150 mesh
295	10	RUSH crush and split (0-3 Kg)
3202	10	Rock - save entire reject
285	10	ICP - HF digestion charge
287	10	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	10	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	10	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	10	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	10	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	10	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	10	Ba ppm	XRF	10	50000
444	10	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	10	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	10	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	10	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	10	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	10	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	10	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	10	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	10	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	10	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	10	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	10	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	10	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	10	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	10	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	10	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	10	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	10	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	10	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	10	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	10	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	10	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	10	Pb ppm: 24 element, rock & core	AAS	2	10000
582	10	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	10	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	10	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	10	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	10	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page : 1-A
 Total : 1
 Certificate Date: 25-OCT-96
 Invoice No. : 19632901
 P.O. Number : 6406
 Account : GPW

CERTIFICATE OF ANALYSIS A9632901

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As ppm	Sb ppm	Hg Ag ppm	Al % Ba ppm Be ppm Bi ppm Ca % Cd ppm Co ppm Cr ppm	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
	RUSH	RUSH	RUSH	RUSH	%	%	% ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
105817	255	295	260	16.8	0.13	0.03	4.65 1560 3.03	162	520	10120	15.0	1.07	310	< 0.5	< 2	11.90	469	9	105		
105818	255	295	110	5.2	0.09	0.04	1.81 8720 3.00	196	400	6650	4.8	4.01	260	< 0.5	< 2	7.33	158.5	8	142		
105819	255	295	90	2.5	0.06	0.04	1.97 2620 3.50	198	320	2400	2.0	1.34	270	< 0.5	< 2	15.95	181.5	5	67		
105820	255	295	190	8.5	0.36	0.06	8.04 14560 3.96	304	330	8690	7.0	4.92	500	< 0.5	< 2	4.61	>500	34	93		
105821	255	295	30	0.7	0.05	0.03	1.29 13710 2.84	68	115	6510	< 0.2	5.90	340	1.0	6	16.60	120.0	7	47		
105822	255	295	10	0.8	0.03	0.01	0.28 15300 2.87	48	12.5	1500	0.4	6.01	220	1.0	< 2	4.53	27.0	9	64		
105823	255	295	40	1.4	0.01	0.01	0.02 8270 2.77	96	26	290	1.0	2.47	190	3.0	< 2	0.41	1.5	4	263		
105824	255	295	520	48.4	0.84	0.99	4.99 6890 3.19	570	145	6240	49.0	2.11	170	3.5	< 2	2.12	355	17	272		
105830	255	295	90	4.7	0.06	0.05	0.15 9600 2.66	258	64	720	4.4	2.92	180	5.0	< 2	1.86	13.0	6	303		
105831	255	295	55	2.0	0.01	0.01	0.01 7290 2.72	60	30	140	1.8	2.21	210	2.5	< 2	0.67	< 0.5	5	235		

CERTIFICATION: Hank Buchler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number : 1 B
 Total : 1
 Certificate Date: 25-OCT-96
 Invoice No. : 19632901
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9632901

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105817	255	295	1270	8.25	0.55	4.72	4280	19	0.02	31	110	176	375	0.02	414	10	>10000
105818	255	295	893	9.22	1.85	3.33	2360	23	0.13	53	280	264	179	0.10	1070	20	>10000
105819	255	295	583	7.08	0.65	6.80	4040	19	0.05	25	70	254	380	0.01	545	20	>10000
105820	255	295	3620	15.25	2.15	1.84	1355	40	0.13	79	150	308	110	0.09	1380	30	>10000
105821	255	295	432	4.71	2.57	1.28	2050	13	0.11	33	330	160	509	0.14	511	20	>10000
105822	255	295	301	4.06	2.51	2.59	1005	4	0.12	6	360	30	208	0.14	69	10	2960
105823	255	295	55	3.61	0.95	0.35	80	7	0.04	62	630	24	21	0.08	179	< 10	252
105824	255	295	8890	16.75	0.75	0.31	325	58	0.03	205	1050	>10000	62	0.07	1035	< 10	>10000
105830	255	295	589	3.81	1.12	0.28	175	50	0.03	152	3380	244	57	0.09	777	< 10	1625
105831	255	295	57	3.27	0.80	0.21	100	6	0.03	63	1550	28	25	0.06	112	< 10	142

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists *Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 3 2 9 0 2**

BILLING INFORMATION

Date: 30-OCT-96
 Project: WOLVERINE
 P.O. No.:
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9632902

Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	616.60
Additional charges:				
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00
				Total Cost \$ 658.60
				Client Discount (25% of \$651.60) \$ -162.90
				Net Cost \$ 495.70
				(Reg# R100938885) GST \$ 34.70
				TOTAL PAYABLE (CDN) \$ 530.40

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632902

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632902

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 29-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	5	RUSH Assay ring approx 150 mesh
295	5	RUSH crush and split (0-3 Kg)
3202	5	Rock - save entire reject
290	5	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	5	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	5	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	5	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	5	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	5	Ba ppm	XRF	10	50000
444	5	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	5	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	5	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	5	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	5	Ag ppm: high grade 24 element	AAS	0.5	200
4031	5	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	5	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	5	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	5	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	5	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	5	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	5	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	5	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	5	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	5	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	5	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	5	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	5	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	5	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	5	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	5	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	5	Pb %: high grade 24 element	AAS	0.001	10.00
4047	5	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	5	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	5	V ppm: A22 ICP package	ICP-AES	10	50000
4050	5	Zn ppm: A22 ICP package	ICP-AES	20	100000



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 Invoice No. : 19632902
 P.O. Number :
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632902

SAMPLE	PREP CODE		Au g/t Ag g/t		Cu	Pb	ZnBa (XRFS)	Gr	As	Sb	Hg	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	
			RUSH	RUSH FA	%	%	%	ppm	%	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
105825	258	295	0.51	126	3.03	1.35	15.80	540	4.04	0.06	0.02	0.004	127.0	0.35	400	< 10	80	5.20	1280	240	40
105826	258	295	0.45	82	3.12	0.40	20.0	560	4.28	0.05	0.02	0.002	108.0	0.55	400	< 10	100	0.90	2070	240	50
105827	258	295	0.58	102	2.01	0.08	4.25	260	4.37	0.09	0.06	< 0.001	99.0	0.40	300	< 10	20	2.70	460	150	60
105828	258	295	0.69	149	2.88	0.18	13.50	540	4.80	0.08	0.08	< 0.001	151.0	0.45	400	< 10	20	0.55	1610	110	50
105829	258	295	0.72	153	1.44	0.29	5.87	370	4.15	0.09	0.10	0.001	151.0	0.35	100	< 10	20	5.30	610	70	40

CERTIFICATION:

Hart Buchler



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Project : WOLVERINE
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CERTIFICATE OF ANALYSIS A9632902

SAMPLE	PREP CODE	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
105825	258 295	32800	27.6	< 0.1	0.05	1030	30 < 0.05	80	1.330	50	< 0.05	70	>100000	
105826	258 295	33400	29.4	< 0.1	0.20	310	30 < 0.05	60	0.385	< 10	< 0.05	90	>100000	
105827	258 295	20400	>30.0	< 0.1	0.10	470	60 < 0.05	70	0.077	30	< 0.05	50	40200	
105828	258 295	30400	>30.0	< 0.1	0.20	160	50 < 0.05	50	0.178	10	< 0.05	60	>100000	
105829	258 295	15250	>30.0	< 0.1	0.05	820	50 < 0.05	90	0.286	180	< 0.05	70	59500	

CERTIFICATION: Walter Bunker



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Revised

A9632928

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632928

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6410

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 28-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	45	Geochem ring to approx 150 mesh
226	45	0-3 Kg crush and split
3202	45	Rock - save entire reject
285	45	ICP - HF digestion charge
287	45	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	45	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	45	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	45	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	45	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	45	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	45	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	45	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	45	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	45	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	45	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	45	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	45	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	45	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	45	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	45	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	45	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	45	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	45	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	45	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	45	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	45	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	45	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	45	Pb ppm: 24 element, rock & core	AAS	2	10000
582	45	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	45	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	45	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	45	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	45	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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P.O. Number: 6410
Account: GP W

Project: WOLVERINE
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CERTIFICATE OF ANALYSIS A9632928

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171766	205 226	< 5	1	0.4	20	< 0.2	2.80	4680	0.5	2	0.11	< 0.5	8	193	73
171767	205 226	< 5	1	0.4	< 10	< 0.2	3.28	3240	0.5	4	0.58	< 0.5	10	162	89
171768	205 226	< 5	1	0.4	10	< 0.2	3.84	1260	0.5	4	1.10	< 0.5	11	186	80
171769	205 226	10	2	0.4	20	< 0.2	2.98	230	1.0	< 2	1.22	< 0.5	11	173	85
171770	205 226	< 5	20	0.6	< 10	< 0.2	4.90	4450	0.5	8	1.96	< 0.5	19	225	77
171771	205 226	5	2	0.6	< 10	< 0.2	3.04	1020	0.5	< 2	0.53	< 0.5	8	181	83
171772	205 226	< 5	1	0.4	10	< 0.2	3.16	670	0.5	4	0.81	< 0.5	9	197	80
171773	205 226	< 5	8	0.4	10	< 0.2	4.36	850	0.5	8	1.76	< 0.5	16	204	95
171774	205 226	< 5	2	0.4	10	< 0.2	3.64	1350	0.5	8	1.96	< 0.5	10	206	84
171775	205 226	< 5	4	0.6	< 10	< 0.2	3.92	1740	0.5	2	2.07	< 0.5	11	170	68
171776	205 226	< 5	2	0.4	< 10	< 0.2	3.45	2820	0.5	4	0.63	< 0.5	10	202	71
171777	205 226	< 5	1	0.6	10	< 0.2	3.50	4670	0.5	< 2	0.20	< 0.5	9	186	68
171778	205 226	10	4	0.6	< 10	< 0.2	4.70	3990	1.5	< 2	1.18	< 0.5	14	91	68
171779	205 226	< 5	2	0.4	< 10	< 0.2	5.65	2890	2.0	< 2	0.55	< 0.5	9	82	37
171780	205 226	< 5	1	0.4	< 10	< 0.2	5.54	2510	2.0	< 2	0.70	< 0.5	8	100	31
171781	205 226	< 5	1	0.6	< 10	< 0.2	6.04	2980	2.0	< 2	0.77	< 0.5	8	66	32
171782	205 226	< 5	4	0.4	< 10	< 0.2	4.57	3470	1.5	< 2	0.68	< 0.5	12	95	63
171783	205 226	< 5	16	0.6	< 10	< 0.2	2.63	2220	0.5	2	0.96	< 0.5	15	162	71
171785	205 226	< 5	1	0.4	30	< 0.2	3.85	270	1.5	< 2	1.23	0.5	11	164	89
171786	205 226	20	1	0.2	10	< 0.2	4.22	330	1.5	< 2	2.86	< 0.5	12	270	70
171787	205 226	< 5	2	0.2	< 10	< 0.2	2.88	1030	1.0	2	4.19	< 0.5	6	277	24
171788	205 226	< 5	1	0.4	10	< 0.2	8.46	1080	3.5	2	0.61	< 0.5	5	109	9
171789	205 226	< 5	1	0.2	< 10	< 0.2	7.52	3860	3.5	2	0.34	< 0.5	4	117	16
171790	205 226	< 5	1	0.4	10	< 0.2	7.84	3950	3.5	< 2	0.93	< 0.5	5	130	11
171791	205 226	< 5	2	< 0.2	< 10	0.2	7.70	5180	3.5	8	0.43	0.5	8	125	22
171792	205 226	10	1	0.4	10	0.4	4.92	330	1.5	2	1.56	< 0.5	10	382	60
171793	205 226	< 5	30	0.2	< 10	< 0.2	5.59	440	< 0.5	14	4.05	< 0.5	29	171	92
171794	205 226	< 5	2	0.6	20	< 0.2	3.90	670	0.5	6	2.83	< 0.5	10	281	43
171795	205 226	15	1	0.6	10	0.4	5.03	170	1.0	6	2.17	0.5	13	244	64
171796	205 226	10	1	0.6	< 10	0.2	4.21	290	0.5	10	3.63	< 0.5	14	239	54
171797	205 226	10	1	1.4	20	0.4	4.55	270	1.0	6	1.96	< 0.5	12	251	63
171798	205 226	< 5	4	0.2	< 10	< 0.2	3.24	2680	0.5	6	2.41	< 0.5	10	243	68
171799	205 226	< 5	1	0.2	< 10	< 0.2	3.08	3590	0.5	4	0.74	< 0.5	9	197	64
171800	205 226	< 5	1	< 0.2	< 10	< 0.2	2.71	3190	0.5	6	0.47	< 0.5	11	212	74
171801	205 226	< 5	6	0.2	< 10	0.2	3.38	3950	0.5	6	0.42	< 0.5	10	197	75
171802	205 226	< 5	2	0.2	40	0.2	3.68	520	0.5	8	4.39	< 0.5	9	284	48
171803	205 226	< 5	6	< 0.2	40	< 0.2	3.44	4360	0.5	2	0.51	< 0.5	12	195	86
171804	205 226	< 5	2	0.2	< 10	< 0.2	3.20	4050	0.5	6	0.44	< 0.5	9	234	79
171805	205 226	< 5	6	< 0.2	10	< 0.2	3.24	4770	0.5	6	0.33	< 0.5	11	170	72
171806	205 226	< 5	1	0.4	10	< 0.2	3.36	3920	0.5	2	0.73	< 0.5	11	190	71

CERTIFICATION:

Hart Buchler

* Sample 171784 deleted *



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CERTIFICATE OF ANALYSIS A9632928

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171766	205 226	1.93	1.11	0.43	2020	4	0.08	32	190	8	24	0.12	100	< 10	62
171767	205 226	2.26	1.29	0.88	2750	2	0.05	42	370	10	69	0.17	112	< 10	78
171768	205 226	2.61	1.25	1.17	2240	3	0.40	40	500	10	113	0.22	116	< 10	84
171769	205 226	2.75	1.15	0.67	6370	3	0.04	54	860	10	102	0.13	138	< 10	132
171770	205 226	3.69	1.22	1.85	2500	2	0.13	53	840	4	202	0.39	149	< 10	106
171771	205 226	1.95	1.26	0.82	1730	3	0.03	51	270	6	65	0.16	93	< 10	88
171772	205 226	2.10	1.25	0.88	1470	2	0.14	40	280	8	93	0.14	89	< 10	76
171773	205 226	3.12	1.40	1.50	2290	4	0.36	56	560	8	196	0.26	134	< 10	86
171774	205 226	2.55	1.33	1.14	2530	4	0.26	38	490	10	220	0.19	121	< 10	74
171775	205 226	2.70	1.41	1.30	2650	2	0.28	39	690	10	235	0.25	124	< 10	88
171776	205 226	1.97	1.28	0.83	1555	1	0.04	34	220	8	84	0.16	81	< 10	66
171777	205 226	2.03	1.47	0.72	970	2	0.05	25	250	12	40	0.17	81	< 10	60
171778	205 226	2.32	1.38	0.90	2570	1	0.39	38	330	20	88	0.20	71	< 10	76
171779	205 226	1.83	1.27	0.58	1420	1	2.81	19	230	34	118	0.14	40	< 10	60
171780	205 226	1.50	1.14	0.45	1380	< 1	3.03	17	180	24	137	0.12	32	< 10	54
171781	205 226	1.70	1.35	0.56	1740	< 1	2.96	17	230	32	137	0.12	42	< 10	60
171782	205 226	2.12	1.59	0.68	2460	1	1.41	28	300	20	107	0.18	57	< 10	64
171783	205 226	1.70	0.92	0.63	2940	42	0.50	28	750	12	122	0.16	68	< 10	70
171785	205 226	3.02	1.88	0.82	1955	5	0.06	41	530	30	108	0.18	138	< 10	184
171786	205 226	3.27	1.62	0.90	2610	4	0.05	44	760	34	242	0.17	142	< 10	176
171787	205 226	1.75	1.25	0.68	535	2	0.14	31	850	12	394	0.16	72	< 10	80
171788	205 226	2.90	3.01	1.37	180	2	1.86	6	680	20	73	0.23	33	< 10	110
171789	205 226	1.87	2.47	0.95	235	1	2.17	11	300	32	51	0.15	37	< 10	98
171790	205 226	1.47	2.57	0.87	415	4	2.52	7	380	34	105	0.17	21	< 10	100
171791	205 226	2.78	3.15	1.49	380	1	0.64	22	450	32	46	0.21	83	< 10	150
171792	205 226	2.72	2.11	1.03	705	3	0.10	77	740	16	122	0.24	133	< 10	150
171793	205 226	6.17	1.48	2.48	1570	4	0.45	67	1260	4	334	0.56	228	30	120
171794	205 226	2.24	1.50	0.92	665	2	0.13	49	770	10	186	0.20	100	< 10	124
171795	205 226	3.28	2.07	1.31	885	3	0.14	69	750	16	156	0.25	150	10	156
171796	205 226	3.29	1.52	1.27	935	3	0.27	51	750	12	300	0.26	123	10	118
171797	205 226	2.77	1.76	1.09	905	3	0.07	65	760	10	129	0.24	125	< 10	150
171798	205 226	1.90	1.24	0.91	1030	7	0.26	43	560	8	191	0.15	85	< 10	90
171799	205 226	1.79	1.18	0.83	755	3	0.15	32	330	10	61	0.14	73	< 10	72
171800	205 226	1.73	1.00	0.76	445	3	0.05	31	220	6	35	0.13	68	< 10	64
171801	205 226	1.92	1.26	0.87	535	3	0.10	34	280	6	34	0.17	77	< 10	72
171802	205 226	2.09	1.49	1.06	995	2	0.26	56	950	10	314	0.20	96	< 10	122
171803	205 226	2.05	1.25	1.01	640	1	0.05	38	340	10	50	0.15	80	< 10	78
171804	205 226	1.83	1.23	0.68	990	3	0.16	32	260	16	65	0.15	85	< 10	66
171805	205 226	1.84	1.16	0.79	715	1	0.21	32	230	10	54	0.15	72	< 10	62
171806	205 226	2.08	0.98	0.84	1280	1	0.58	29	310	8	75	0.15	71	< 10	70

CERTIFICATION: *Hart Buchler*

* Sample 171784 deleted *



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 2-A
 Total Pages: 2
 Certificate Date: 27-SEP-96
 Invoice No.: 19632928
 P.O. Number: 6410
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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CERTIFICATE OF ANALYSIS A9632928

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171807	205 226	< 5	1	0.2	10	< 0.2	3.15	3640	0.5	2	1.53	< 0.5	9	179	73
171808	205 226	< 5	2	0.2	10	< 0.2	3.45	4700	0.5	2	0.92	< 0.5	11	208	73
171809	205 226	< 5	1	< 0.2	< 10	< 0.2	3.40	2500	0.5	4	0.71	< 0.5	12	143	82
171810	205 226	< 5	1	0.2	10	< 0.2	3.04	4000	0.5	6	0.55	< 0.5	9	228	66
171811	205 226	< 5	1	0.2	< 10	< 0.2	3.33	3820	0.5	6	0.31	< 0.5	11	219	72

CERTIFICATION: *Hant Buchler*

* Sample 171784 deleted *



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VANCOUVER, BC
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Page: 1 of 2-B
Total: 2
Certificate Date: 27-SEP-96
Invoice No.: I9632928
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Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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CERTIFICATE OF ANALYSIS A9632928

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171807	205 226	1.73	1.21	0.80	1005	6	0.26	35	410	6	197	0.14	73	< 10	74
171808	205 226	1.89	1.18	0.89	1315	1	0.50	32	330	12	129	0.15	71	< 10	78
171809	205 226	2.28	0.48	0.74	2510	1	1.44	21	340	8	133	0.20	73	< 10	54
171810	205 226	1.80	1.13	0.76	845	3	0.13	37	280	10	89	0.15	71	< 10	70
171811	205 226	2.14	1.08	0.85	1035	2	0.36	38	280	12	68	0.19	79	< 10	74

CERTIFICATION: Hart Buchler

* Sample 171784 deleted *



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QC P: 1-A
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 Date: 27-SEP-96
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

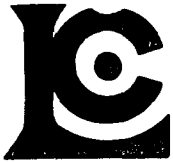
REVISED COPY

QC DATA OF CERTIFICATE A9632928

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1	1	----	----	----	----	----	7.92	1240	1.0	< 2	2.15	0.5	19	103	192
G96-TOT	Std2	1	----	----	----	----	----	7.34	1140	0.5	8	1.96	0.5	19	94	177
G96-TOT	Std1	2	----	----	----	----	----	7.95	1230	0.5	10	2.14	0.5	20	106	187
CHEMEX MEAN	----	----	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	----	58	4.4	170	5.4	----	----	----	----	----	----	----	----	----
GEO-96	Std2	1	----	60	4.4	140	5.2	----	----	----	----	----	----	----	----	----
GEO-96	Std1	2	----	62	4.6	170	5.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1	2	110 92	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10 19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	1 2	< 0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.30 0.24	30 13	< 0.5 < 0.5	< 2 < 2	0.02 0.01	< 0.5 < 0.5	< 1 < 1	6 5	3 2	
SL-96 CHEMEX MEAN	Std2	1	755 765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96 CHEMEX MEAN	Std1	1	310 239	----	----	----	----	----	----	----	----	----	----	----	----	----
171766	Dupl-01 Origl-01		< 5 < 5	1 1	0.2 0.4	10 20	< 0.2 < 0.2	2.88 2.80	4850 4680	0.5 0.5	< 2 2	0.10 0.11	< 0.5 < 0.5	8 8	212 193	75 73

CERTIFICATION: *Hart Beckler*

* Sample 171784 deleted *



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F 1-B
 Tot Qc 1
 Date: 27-SEP-96
 Invoice #: 19632928
 P.O. #: 6410
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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QC DATA OF CERTIFICATE A9632928

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	4.82	1.90	1.06	1100	12	1.07	25	650	----	238	0.35	164	10	194
G96-TOT	std2	1	4.56	1.73	1.00	960	10	1.03	21	570	----	215	0.34	148	30	184
G96-TOT	std1	2	4.94	1.88	1.08	1060	11	1.09	23	640	----	235	0.35	162	30	198
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	std1	1	----	----	----	----	----	----	----	----	136	----	----	----	----	----
GEO-96	std2	1	----	----	----	----	----	----	----	----	138	----	----	----	----	----
GEO-96	std1	2	----	----	----	----	----	----	----	----	138	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
JL-1 CHEMEX MEAN	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	0.07	0.06	0.02	5	< 1	0.01	1	140	----	133	0.01	5	< 10	4
	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96 CHEMEX MEAN	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96 CHEMEX MEAN	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
171766	Dup1-01		1.95	1.18	0.44	2060	4	0.09	31	170	8	24	0.12	103	< 10	60
	Orig1-01		1.93	1.11	0.43	2020	4	0.08	32	190	8	24	0.12	100	< 10	62

CERTIFICATION:

Hart Bichler

* Sample 171784 deleted *



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 2 9

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632929

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
37	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	1289.45
				Total Cost \$ 1289.45
				Client Discount (25%) \$ <u>-322.36</u>
				Net Cost \$ 967.09
				(Reg# R100938885) GST \$ <u>67.70</u>
				TOTAL PAYABLE (CDN) \$ 1034.79



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC I
 Tot G
 Date: 27-SEP-96
 Invoice #: 19632929
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE A9632929

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT CHEMEX MEAN	Std1	1	----	----	----	----	7.42	1180	0.5	< 2	2.04	< 0.5	17	100	187	
	Std2	1	----	----	----	----	7.67	1160	< 0.5	< 2	2.06	< 0.5	17	100	184	
			----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177	
GEO-96 CHEMEX MEAN	Std1	1	----	60	4.8	170	6.2	----	----	----	----	----	----	----	----	
	Std2	1	----	60	4.6	150	5.0	----	----	----	----	----	----	----	----	
			----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10 19	----	----	----	----	----	----	----	----	----	
SIO2-G2 CHEMEX MEAN	Blnk	1	----	1 2	0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.29 0.24	20 13	< 0.5 < 0.5	< 2 < 2	0.02 0.01	< 0.5 < 0.5	< 1 < 1	2 5	< 1 2	
SL-96 CHEMEX MEAN	Std2	1	715 765	----	----	----	----	----	----	----	----	----	----	----	----	
WC-96 CHEMEX MEAN	Std1	1	230 239	----	----	----	----	----	----	----	----	----	----	----	----	
175274	Dupl	1-01	< 5	1	0.4	< 10	< 0.2	0.95	1910	< 0.5	< 2	0.08	< 0.5	< 1	156	13
	Origl	1-01	< 5	1	0.6	10	< 0.2	0.93	1880	< 0.5	< 2	0.07	< 0.5	< 1	149	19

CERTIFICATION: *Hunt Backe*



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QC # 1-B
 Total 1
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 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632929

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1 1	4.77	1.79	1.01	965	10	1.03	23	600	----	218	0.36	153	20	202
G96-TOT	Std2 1	4.75	1.73	1.04	950	10	1.00	19	580	----	216	0.35	148	20	192
CHEMEX MEAN	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	Std1 1	----	----	----	----	----	----	----	----	136	----	----	----	----	----
GEO-96	Std2 1	----	----	----	----	----	----	----	----	150	----	----	----	----	----
CHEMEX MEAN	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-Q2 CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	8 < 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk 1	0.05	0.06	0.01	< 5	< 1	< 0.01	< 1	130	----	127	0.01	2	< 10	< 2
	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96 CHEMEX MEAN	Std2 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
175274	Dup1-01	>25.0	0.11	0.16	675	17	< 0.01	14	270	< 2	177	0.04	125	10	126
	Orig1-01	>25.0	0.10	0.16	650	20	0.01	16	280	< 2	179	0.04	121	< 10	124

CERTIFICATION: _____



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A9632929

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632929

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 27-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	37	Geochem ring to approx 150 mesh
226	37	0-3 Kg crush and split
3202	37	Rock - save entire reject
285	37	ICP - HF digestion charge
287	37	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	37	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	37	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	37	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	37	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	37	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	37	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	37	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	37	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	37	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	37	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	37	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	37	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	37	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	37	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	37	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	37	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	37	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	37	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	37	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	37	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	37	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	37	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	37	Pb ppm: 24 element, rock & core	AAS	2	10000
582	37	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	37	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	37	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	37	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	37	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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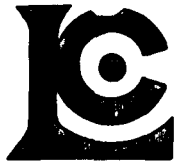
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 11-A
 Total Pages: 11
 Certificate Date: 27-SEP-96
 Invoice No.: 19632929
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 Account: GP W

CERTIFICATE OF ANALYSIS A9632929

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175274	205 226	< 5	1	0.6	10	< 0.2	0.93	1880	< 0.5	< 2	0.07	< 0.5	< 1	149	19
175275	205 226	< 5	1	0.2	40	0.4	1.99	2180	2.0	< 2	0.11	< 0.5	4	219	49
175276	205 226	< 5	1	0.2	40	< 0.2	1.12	1170	< 0.5	2	0.21	< 0.5	3	159	26
175277	205 226	10	2	0.4	20	< 0.2	1.32	400	< 0.5	< 2	0.76	< 0.5	1	177	26
175278	205 226	30	1	1.0	< 10	< 0.2	3.64	580	1.5	2	0.44	< 0.5	4	191	25
175279	205 226	< 5	1	0.4	50	< 0.2	3.38	3980	2.5	< 2	0.23	< 0.5	5	170	60
175280	205 226	< 5	1	0.6	< 10	< 0.2	1.63	400	0.5	2	1.01	< 0.5	< 1	202	16
175281	205 226	< 5	2	0.2	< 10	< 0.2	1.57	680	1.5	2	0.75	< 0.5	< 1	212	8
175282	205 226	< 5	1	0.4	210	< 0.2	2.82	570	2.0	< 2	0.22	< 0.5	6	120	58
175283	205 226	< 5	1	1.6	310	< 0.2	1.88	220	2.0	< 2	0.25	< 0.5	3	176	38
175284	205 226	5	1	3.4	310	< 0.2	1.50	130	1.5	2	0.24	< 0.5	3	138	65
175285	205 226	10	4	2.4	240	0.6	2.43	380	3.0	< 2	0.16	0.5	5	191	50
175286	205 226	< 5	4	1.2	220	0.4	1.26	150	2.5	< 2	0.77	1.5	3	284	49
175287	205 226	5	10	2.4	170	0.2	0.65	100	2.0	< 2	19.25	< 0.5	1	86	27
175288	205 226	< 5	12	2.4	60	< 0.2	0.51	180	2.5	2	20.8	< 0.5	1	69	19
175289	205 226	< 5	18	2.8	90	< 0.2	0.31	160	1.5	2	20.9	< 0.5	1	76	20
175290	205 226	30	28	5.2	200	0.6	1.35	150	2.5	< 2	1.47	1.0	3	209	60
175291	205 226	< 5	2	1.2	140	0.4	2.62	290	4.5	< 2	1.44	< 0.5	3	149	85
175292	205 226	< 5	1	1.4	70	0.2	1.98	300	3.0	< 2	1.08	< 0.5	4	152	83
175293	205 226	10	1	1.6	500	0.6	2.55	380	5.0	< 2	1.09	11.0	5	265	74
175294	205 226	< 5	1	1.0	< 10	< 0.2	2.91	270	8.5	2	2.14	< 0.5	3	187	42
175295	205 226	20	8	2.6	60	0.6	1.16	90	3.0	< 2	15.35	< 0.5	3	91	30
175296	205 226	10	1	0.4	2090	0.4	1.92	100	8.5	< 2	9.39	29.5	5	142	50
175297	205 226	10	1	0.6	110	0.4	1.82	120	4.5	4	7.61	1.0	6	285	52
175298	205 226	< 5	1	0.8	120	0.4	0.99	210	< 0.5	< 2	10.10	3.0	4	222	41
175299	205 226	25	34	10.0	300	1.2	2.93	60	2.0	< 2	1.29	12.5	6	283	50
175300	205 226	< 5	1	0.4	10	< 0.2	6.07	4310	7.0	< 2	1.28	< 0.5	2	120	6
106101	205 226	< 5	1	1.6	30	0.2	7.15	210	2.0	< 2	1.14	< 0.5	4	90	5
106102	205 226	< 5	2	0.6	< 10	< 0.2	7.18	2180	2.0	< 2	1.25	< 0.5	4	89	6
106103	205 226	< 5	4	0.4	10	< 0.2	6.74	290	1.5	< 2	1.66	< 0.5	6	119	23
106104	205 226	< 5	18	0.4	10	0.2	6.67	780	2.0	< 2	1.19	0.5	4	139	13
106105	205 226	10	8	2.2	60	0.6	6.93	430	2.0	< 2	1.00	< 0.5	4	143	9
106106	205 226	20	12	4.4	140	< 0.2	6.94	460	1.5	< 2	0.89	< 0.5	3	147	5
106114	205 226	< 5	2	4.8	50	< 0.2	6.93	1030	2.5	< 2	0.76	< 0.5	3	130	14
106115	205 226	< 5	1	3.0	60	< 0.2	7.06	1010	2.5	< 2	1.35	0.5	3	142	12
106116	205 226	< 5	1	3.0	110	< 0.2	6.26	920	2.0	< 2	0.67	1.5	3	108	42
106117	205 226	< 5	1	3.8	270	< 0.2	6.92	1140	2.5	< 2	0.52	5.5	3	109	10

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

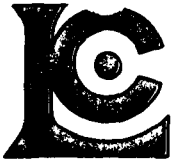
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 Total Pages: 1
 Certificate Date: 27-SEP-96
 Invoice No.: I9632929
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632929

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175274	205 226	>25.0	0.10	0.16	650	20	0.01	16	280	< 2	179	0.04	121	< 10	124
175275	205 226	6.82	0.69	0.20	260	8	0.04	32	400	10	120	0.10	113	< 10	116
175276	205 226	13.75	0.14	0.14	1170	8	0.03	20	220	2	329	0.05	68	< 10	426
175277	205 226	16.30	0.03	0.23	1195	32	0.01	20	400	< 2	196	0.06	97	< 10	176
175278	205 226	6.85	0.85	0.63	295	2	0.14	13	590	< 2	224	0.19	103	< 10	32
175279	205 226	2.35	1.31	0.40	120	5	0.11	12	130	< 2	120	0.18	88	< 10	112
175280	205 226	13.40	0.24	0.23	275	10	0.05	6	670	< 2	194	0.08	72	< 10	12
175281	205 226	8.66	0.24	0.19	165	6	0.04	5	720	< 2	270	0.08	74	< 10	10
175282	205 226	1.27	1.10	0.33	65	9	0.10	28	100	12	39	0.12	97	< 10	568
175283	205 226	1.71	0.89	0.24	65	12	0.02	13	440	150	19	0.08	92	< 10	1015
175284	205 226	3.36	0.68	0.23	155	7	0.01	21	220	520	13	0.06	105	< 10	1060
175285	205 226	1.83	1.17	0.29	90	5	0.04	27	300	136	10	0.11	134	< 10	902
175286	205 226	1.49	0.56	0.14	95	5	0.01	21	120	124	14	0.05	89	< 10	674
175287	205 226	5.42	0.25	0.17	1730	10	< 0.01	3	1150	180	222	0.02	80	20	486
175288	205 226	5.30	0.15	0.13	1500	14	0.01	8	2230	630	125	0.01	103	20	166
175289	205 226	4.35	0.05	0.10	1405	10	0.01	6	1810	480	99	< 0.01	83	10	184
175290	205 226	5.40	0.57	0.12	125	18	0.01	15	1700	330	20	0.04	141	< 10	528
175291	205 226	1.65	0.90	0.24	120	7	0.04	18	980	24	37	0.10	170	< 10	302
175292	205 226	1.74	0.82	0.22	275	4	0.01	15	620	30	22	0.08	111	< 10	560
175293	205 226	3.10	1.08	0.38	610	2	0.03	40	940	704	23	0.11	168	< 10	4500
175294	205 226	6.18	1.16	0.71	2050	3	0.03	13	620	28	56	0.12	141	10	54
175295	205 226	6.98	0.33	0.44	2530	7	0.01	10	740	340	254	0.04	75	30	248
175296	205 226	9.15	0.70	0.57	3070	6	0.04	19	1090	210	190	0.08	125	30	8680
175297	205 226	6.57	0.69	0.50	1955	6	0.02	22	940	156	147	0.06	117	10	504
175298	205 226	5.54	0.25	0.40	2120	4	0.09	11	650	120	413	0.03	64	10	734
175299	205 226	4.11	0.73	0.28	270	13	0.04	53	670	160	29	0.10	210	< 10	1700
175300	205 226	2.11	2.49	1.01	340	6	0.15	3	40	4	70	0.11	3	< 10	114
106101	205 226	2.22	2.60	0.63	195	3	1.81	3	560	32	54	0.18	17	< 10	80
106102	205 226	2.11	2.74	0.69	225	3	1.53	4	680	16	60	0.26	25	< 10	62
106103	205 226	2.74	3.07	0.70	335	1	0.54	5	630	10	64	0.21	24	< 10	100
106104	205 226	2.04	3.15	0.75	310	5	0.34	8	500	4	56	0.15	31	< 10	188
106105	205 226	1.59	2.22	0.59	190	6	2.03	7	450	40	54	0.16	35	< 10	174
106106	205 226	1.22	1.28	0.30	120	5	3.43	4	480	30	59	0.11	13	< 10	68
106114	205 226	1.67	2.35	2.76	315	4	0.19	3	260	66	20	0.13	15	< 10	182
106115	205 226	1.67	2.37	2.78	400	2	0.18	2	280	72	25	0.14	15	< 10	202
106116	205 226	1.56	2.10	2.27	285	4	0.14	3	250	80	17	0.13	13	< 10	340
106117	205 226	1.84	2.28	2.67	285	3	0.17	< 1	270	88	16	0.13	15	< 10	740

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 3 0

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632930

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
38	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
983	- Au ppb FA+AA	9.75	34.85	1324.30
Total Cost \$				1324.30
Client Discount (25%) \$				-331.08
Net Cost \$				993.22
(Reg# R100938885) GST \$				69.53
TOTAL PAYABLE (CDN) \$				1062.75



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

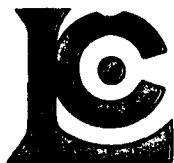
QC : 1 A
 Tot Qc Rg: 1
 Date: 28 SEP-96
 Invoice #: 19632930
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632930

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	---	---	---	---	---	---	---	---	---	---	---	---	---
G96-TOT CHEMEX MEAN	Std1	1	---	---	---	---	---	7.60	1160	0.5	10	2.04	0.5	19	100	180
G96-TOT CHEMEX MEAN	Std2	1	---	---	---	---	---	7.87	1210	0.5	10	2.15	0.5	20	101	187
G96-TOT CHEMEX MEAN	---	---	---	---	---	---	---	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96 CHEMEX MEAN	Std1	1	---	60	5.0	140	5.0	---	---	---	---	---	---	---	---	---
GEO-96 CHEMEX MEAN	Std2	1	---	58	4.6	150	5.4	---	---	---	---	---	---	---	---	---
GEO-96 CHEMEX MEAN	---	---	---	64	4.5	168	5.5	---	---	---	---	---	---	---	---	---
SI02-3 CHEMEX MEAN	Blnk	1	---	---	---	< 10 19	---	---	---	---	---	---	---	---	---	---
SI02-G2 CHEMEX MEAN	Blnk	1	---	1 2	< 0.2 < 0.2	---	< 0.2 < 0.2	---	---	---	---	---	---	---	---	---
SI02-T3 CHEMEX MEAN	Blnk	1	---	---	---	---	---	0.30 0.24	40 13	< 0.5 < 0.5	< 2 < 2	0.02 0.01	< 0.5 < 0.5	< 1 < 1	5 5	1 2
SL-96 CHEMEX MEAN	Std2	1	740 765	---	---	---	---	---	---	---	---	---	---	---	---	---
WC-96 CHEMEX MEAN	Std1	1	210 239	---	---	---	---	---	---	---	---	---	---	---	---	---
175127	Dupl-01		5	1	0.6	30	0.2	3.60	400	< 0.5	6	6.38	< 0.5	7	164	27
	Origl-01		5	1	0.8	20	0.4	3.84	400	< 0.5	6	6.77	< 0.5	8	178	29

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

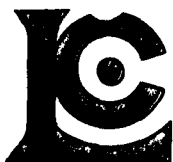
QC: 1-B
 Tot QC mg: 1
 Date: 28-SEP-96
 Invoice #: 19632930
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632930

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1 1	4.73	1.85	1.03	1030	9	1.04	22	610	----	225	0.35	156	20	192
G96-TOT	Std2 1	5.00	1.92	1.06	1080	10	1.09	26	630	----	233	0.37	164	10	200
CHEMEX MEAN	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	Std1 1	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	Std2 1	----	----	----	----	----	----	----	----	130	----	----	----	----	----
CHEMEX MEAN	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk 1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk 1	0.06	0.06	0.01	5	< 1	< 0.01	1	150	----	136	0.01	4	< 10	2
	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96 CHEMEX MEAN	Std2 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
175127	Dupl-01	2.73	0.27	1.53	1725	2	1.16	37	1600	12	750	0.18	92	10	96
	Orig-01	2.90	0.29	1.64	1825	2	1.24	40	1660	14	791	0.19	98	10	104

CERTIFICATION: Hank Buehler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632930

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632930

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	38	Geochem ring to approx 150 mesh
226	38	0-3 Kg crush and split
3202	38	Rock - save entire reject
285	38	ICP - HF digestion charge
287	38	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	38	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	38	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	38	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	38	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	10000
578	38	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	38	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	38	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	38	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	38	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	38	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	38	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	38	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	38	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	38	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	38	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	38	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	38	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	38	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	38	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	38	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	38	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	38	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	38	Pb ppm: 24 element, rock & core	AAS	2	10000
582	38	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	38	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	38	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	38	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	38	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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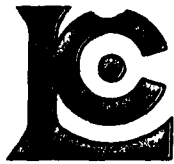
Page Number : 1-A
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 Certificate Date: 28-SEP-96
 Invoice No. : 19632930
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632930

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175127	205 226	5	1	0.8	20	0.4	3.84	400	< 0.5	6	6.77	< 0.5	8	178	29
175128	205 226	< 5	1	1.0	30	0.4	2.99	310	< 0.5	8	7.54	0.5	7	153	27
175129	205 226	105	1	1.6	60	0.2	1.82	170	< 0.5	2	0.14	< 0.5	5	168	43
175130	205 226	10	2	2.0	20	< 0.2	1.65	210	< 0.5	12	3.93	< 0.5	5	145	46
175131	205 226	30	1	1.6	240	0.2	2.68	290	2.0	< 2	0.65	< 0.5	9	154	93
175132	205 226	20	26	24	17100	4.4	5.59	180	2.0	6	7.43	207	5	134	194
175134	205 226	60	166	195	31800	82.0	1.86	150	1.0	8	5.53	429	6	311	1350
175135	205 226	35	152	83	2030	5.2	2.56	160	2.5	8	3.18	29.0	5	239	128
175136	205 226	25	36	26	730	2.0	2.49	160	3.0	2	2.35	2.5	4	197	57
175137	205 226	20	30	32	390	2.0	2.37	140	2.5	2	1.38	0.5	4	173	62
175138	205 226	35	38	34	300	2.0	2.61	120	2.0	2	1.63	0.5	5	138	75
175139	205 226	55	32	15.0	170	1.0	3.49	260	2.5	6	1.70	< 0.5	7	151	45
175140	205 226	35	26	14.0	140	1.4	2.30	140	3.0	< 2	0.30	< 0.5	4	203	48
175141	205 226	60	26	17.0	300	1.6	2.63	150	2.5	2	0.48	< 0.5	5	257	67
175142	205 226	60	36	14.0	150	1.0	3.74	160	2.5	6	1.83	< 0.5	8	250	50
175143	205 226	65	14	12.0	40	0.8	3.31	310	1.0	2	0.94	< 0.5	9	187	65
175144	205 226	240	12	14.5	40	1.0	4.11	240	1.5	2	0.42	< 0.5	9	178	52
175145	205 226	175	90	16.0	80	1.6	4.37	180	2.0	2	0.40	< 0.5	13	186	54
175146	205 226	75	36	16.5	120	4.2	2.13	150	2.0	2	0.54	0.5	5	213	44
175147	205 226	80	64	39	130	3.6	3.25	130	3.5	2	0.07	0.5	6	290	68
175148	205 226	75	70	36	160	3.0	3.64	200	2.0	2	0.91	0.5	6	212	69
175149	205 226	80	60	38	160	3.4	4.87	170	3.0	4	1.84	2.0	8	278	67
175150	205 226	50	40	20	70	2.6	2.02	190	2.0	4	0.35	< 0.5	4	182	51
175251	205 226	35	70	24	250	3.8	2.93	280	2.0	2	0.39	3.5	6	247	67
175260	205 226	< 5	6	5.2	90	0.8	7.17	270	2.0	6	7.77	< 0.5	9	114	45
175261	205 226	15	58	20	580	0.6	4.76	100	1.5	6	5.38	3.5	5	208	21
175262	205 226	5	10	6.2	230	0.4	7.19	340	2.5	2	1.77	< 0.5	5	93	49
175263	205 226	< 5	20	9.0	520	0.4	6.57	240	2.0	6	4.14	4.5	4	140	26
175264	205 226	< 5	12	5.6	1490	< 0.2	7.10	320	3.0	6	3.85	10.5	5	111	22
175265	205 226	< 5	22	5.4	370	0.2	7.50	470	3.0	< 2	2.21	< 0.5	6	103	7
175266	205 226	< 5	16	4.8	230	0.4	7.74	520	3.0	6	2.16	< 0.5	5	85	9
175267	205 226	10	26	6.8	540	0.4	7.57	490	3.5	2	2.02	1.5	6	160	13
175268	205 226	5	18	5.6	100	0.4	7.06	540	3.5	2	1.77	< 0.5	5	107	9
175269	205 226	< 5	14	4.2	160	0.4	7.26	370	3.5	< 2	0.84	< 0.5	4	130	7
175270	205 226	< 5	14	4.2	220	0.4	7.11	300	3.0	2	1.04	< 0.5	5	77	7
175271	205 226	< 5	52	31	1670	2.2	5.91	300	3.0	2	2.65	14.0	4	85	47
175272	205 226	< 5	14	8.4	430	0.4	6.98	460	3.0	< 2	0.19	1.5	5	96	11
175273	205 226	< 5	52	44	550	2.8	3.21	110	2.5	4	1.37	5.0	5	252	69

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-B
 Total Pages: 1
 Certificate Date: 28-SEP-96
 Invoice No.: 19632930
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632930

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175127	205 226	2.90	0.29	1.64	1825	2	1.24	40	1660	14	791	0.19	98	10	104
175128	205 226	2.16	0.51	1.20	1980	2	0.05	29	1230	10	597	0.09	76	10	86
175129	205 226	3.29	0.27	0.27	1030	1	0.04	24	260	< 2	24	0.09	58	< 10	34
175130	205 226	7.37	0.23	0.58	4600	1	0.02	11	550	4	350	0.06	65	30	14
175131	205 226	2.06	0.54	0.34	430	7	0.10	50	190	12	162	0.07	126	< 10	276
175132	205 226	1.59	2.11	0.36	1070	10	0.13	18	560	326	384	0.13	231	< 10	>10000
175134	205 226	3.45	0.71	0.19	640	29	0.02	100	1980	2540	217	0.05	618	10	>10000
175135	205 226	2.20	0.97	0.21	330	30	0.05	110	2300	74	172	0.07	678	< 10	1840
175136	205 226	2.15	1.11	0.27	495	5	0.03	47	850	20	132	0.09	230	< 10	418
175137	205 226	2.10	1.06	0.27	190	5	0.03	53	920	4	99	0.08	114	< 10	266
175138	205 226	2.58	1.11	0.44	320	7	0.03	55	800	8	98	0.09	147	< 10	274
175139	205 226	2.33	1.64	0.91	480	5	0.05	42	900	4	104	0.14	117	< 10	166
175140	205 226	1.54	1.02	0.23	50	5	0.04	47	1000	< 2	26	0.08	117	< 10	158
175141	205 226	2.08	1.16	0.28	105	5	0.05	51	920	< 2	27	0.09	116	< 10	376
175142	205 226	2.75	1.67	1.07	580	5	0.05	56	1580	< 2	113	0.15	136	10	158
175143	205 226	2.12	1.50	0.78	715	1	0.05	42	210	< 2	68	0.15	137	< 10	104
175144	205 226	2.33	1.90	0.66	465	1	0.08	35	180	< 2	43	0.19	155	< 10	60
175145	205 226	2.29	1.97	0.64	335	4	0.09	63	840	< 2	31	0.17	169	< 10	164
175146	205 226	1.87	0.91	0.26	75	5	0.04	52	2240	4	36	0.07	112	< 10	250
175147	205 226	3.05	1.30	0.37	55	6	0.07	69	300	10	14	0.11	168	< 10	232
175148	205 226	4.14	0.66	0.56	415	11	0.08	75	800	< 2	53	0.11	293	< 10	222
175149	205 226	4.55	1.16	0.81	525	11	0.10	75	1220	< 2	102	0.15	252	< 10	342
175150	205 226	4.17	0.32	0.17	85	5	0.04	34	520	< 2	17	0.06	95	< 10	90
175251	205 226	2.42	0.28	0.22	100	8	0.07	82	190	< 2	31	0.09	263	< 10	696
175260	205 226	2.68	3.33	1.13	750	5	0.23	12	470	4	269	0.12	82	< 10	36
175261	205 226	2.85	2.06	0.44	410	13	0.10	30	290	16	142	0.10	506	< 10	344
175262	205 226	2.09	3.13	0.71	170	4	0.24	6	350	10	66	0.16	42	< 10	52
175263	205 226	2.19	2.65	0.72	340	5	0.45	6	350	86	131	0.17	54	< 10	470
175264	205 226	1.90	3.37	0.80	500	4	0.20	3	360	16	100	0.19	20	< 10	1410
175265	205 226	2.05	3.68	0.93	285	3	0.19	2	380	8	86	0.20	21	< 10	26
175266	205 226	2.01	3.86	1.34	280	4	0.19	1	390	8	69	0.19	23	< 10	22
175267	205 226	2.29	3.70	1.09	255	3	0.20	6	340	12	81	0.20	65	< 10	300
175268	205 226	2.38	3.59	0.87	195	4	0.17	3	310	22	67	0.18	26	< 10	16
175269	205 226	1.98	3.59	0.80	135	6	0.19	5	350	12	32	0.20	22	< 10	12
175270	205 226	1.72	3.54	0.82	135	2	0.18	3	340	10	41	0.20	38	< 10	46
175271	205 226	2.23	2.67	0.55	255	13	0.12	42	960	44	122	0.15	391	< 10	878
175272	205 226	1.99	3.32	0.69	45	7	0.17	9	370	12	22	0.19	89	< 10	142
175273	205 226	3.27	1.54	0.31	185	11	0.06	71	1140	20	80	0.10	293	< 10	444

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 3 3

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632933

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
30	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	1087.50
				Total Cost \$ 1087.50
				Client Discount (25%) \$ 271.88
				Net Cost \$ 815.62
				(Reg# R100938885) GST \$ 57.09
				TOTAL PAYABLE (CDN) \$ 872.71



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC: 1-A
 Tot QC Pgs: 1
 Date: 28-SEP-96
 Invoice #: 19632933
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9632933

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT	Std1	1	-----	-----	-----	-----	-----	7.54	1170	0.5	6	2.06	1.5	18	97	183
G96-TOT	Std2	1	-----	-----	-----	-----	-----	7.85	1210	0.5	2	2.10	1.0	20	100	187
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	-----	58	4.6	170	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	58	4.6	160	7.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
SL-96	Std2	1	710	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	765	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	240	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105801	Dupl-01		< 5	8	4.2	150	0.2	6.15	320	2.5	2	1.85	0.5	4	190	8
	Origl-01		< 5	8	4.2	170	< 0.2	6.39	320	3.0	8	1.94	0.5	5	180	9

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC
 Tot Grng: 1
 Date: 28 SEP-96
 Invoice #: 19632933
 P.O. #: 6406
 GP W

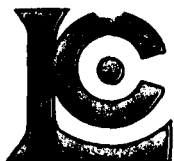
QC DATA OF CERTIFICATE

A9632933

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1	1	4.74	1.81	1.02	1035	10	1.06	20	620	-----	227	0.35	154	10	190
G96-TOT	Std2	1	4.88	1.90	1.06	1070	11	1.08	22	630	-----	233	0.36	160	10	198
CHEMEX MEAN	----	----	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	136	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	136	-----	-----	-----	-----	-----
CHEMEX MEAN	----	----	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
SL-96	std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105801	Dupl	01	1.69	3.13	0.73	230	3	0.15	4	310	14	65	0.17	34	< 10	66
	Origl	01	1.76	3.32	0.76	240	3	0.15	4	320	10	66	0.17	37	< 10	70

CERTIFICATION:

Handwritten signature/initials



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632933

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632933

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

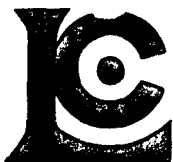
Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	30	Geochem ring to approx 150 mesh
294	30	4-7 Kg crush and split
3202	30	Rock - save entire reject
285	30	ICP - HF digestion charge
287	30	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	30	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	30	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	30	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	30	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	30	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	30	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	30	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	30	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	30	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	30	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	30	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	30	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	30	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	30	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	30	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	30	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	30	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	30	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	30	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	30	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	30	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	30	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	30	Pb ppm: 24 element, rock & core	AAS	2	10000
582	30	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	30	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	30	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	30	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	30	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

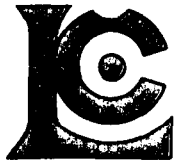
Page Number : 1-A
 Total Pages : 1
 Certificate Date: 28-SEP-96
 Invoice No. : 19632933
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632933

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105801	205 294	< 5	8	4.2	170	< 0.2	6.39	320	3.0	8	1.94	0.5	5	180	9
105802	205 294	10	40	18.0	1210	1.0	6.83	510	3.0	12	3.23	9.5	6	258	12
105803	205 294	< 5	8	4.6	160	< 0.2	4.99	270	2.5	8	0.98	< 0.5	5	244	8
105804	205 294	< 5	24	24	540	1.4	5.00	260	3.0	6	1.41	2.5	4	255	32
105805	205 294	< 5	42	32	580	1.6	5.32	260	3.0	6	1.37	9.0	5	263	42
105806	205 294	< 5	6	4.6	40	0.4	8.78	480	3.0	4	0.95	< 0.5	6	147	11
105807	205 294	< 5	36	2.6	50	< 0.2	8.99	320	3.0	2	0.58	< 0.5	6	169	30
105808	205 294	< 5	8	0.8	10	< 0.2	7.46	3160	2.5	6	1.41	< 0.5	5	166	3
106118	205 294	< 5	2	< 0.2	80	0.4	2.16	430	1.5	6	0.39	< 0.5	5	162	71
106119	205 294	40	1	0.2	290	0.4	2.37	160	1.0	< 2	1.59	< 0.5	7	212	61
106120	205 294	< 5	1	0.4	210	0.4	1.36	520	0.5	2	0.34	< 0.5	4	135	72
106121	205 294	95	1	0.4	30	< 0.2	2.40	280	1.5	14	9.27	< 0.5	13	157	51
106122	205 294	15	14	3.6	170	0.4	2.29	110	3.0	10	10.35	5.0	7	187	60
106123	205 294	< 5	2	< 0.2	10	< 0.2	2.68	890	0.5	4	0.57	< 0.5	9	269	53
106124	205 294	< 5	1	1.2	30	< 0.2	2.57	860	0.5	8	0.70	< 0.5	9	256	84
106125	205 294	10	24	10.0	70	1.2	3.40	230	1.5	6	1.61	< 0.5	12	225	43
106126	205 294	40	40	14.0	150	1.8	4.12	190	1.5	10	1.22	1.5	6	248	52
106127	205 294	30	30	19.5	130	1.4	3.18	100	2.5	10	1.58	0.5	6	257	49
106139	205 294	10	62	24	300	1.2	5.80	170	2.5	12	5.45	3.5	7	226	104
106140	205 294	35	16	24	80	8.0	1.08	80	< 0.5	12	11.95	1.0	22	158	1810
106141	205 294	< 5	18	11.5	150	1.8	9.38	700	4.0	8	6.47	< 0.5	10	95	903
106142	205 294	< 5	30	9.0	290	0.4	4.85	770	1.5	8	11.55	1.5	4	191	729
106143	205 294	< 5	40	54	1710	0.8	3.99	340	1.5	4	17.95	17.0	5	178	1135
106144	205 294	< 5	44	18.0	1760	1.0	6.23	240	2.5	< 2	0.80	19.5	3	225	79
106145	205 294	< 5	40	18.5	1230	0.4	6.90	300	2.5	< 2	0.62	11.5	2	259	21
106146	205 294	< 5	38	17.5	2150	1.0	6.05	320	2.5	2	1.17	31.0	4	376	26
106147	205 294	< 5	40	20	1650	1.0	7.75	290	3.0	2	0.45	18.0	4	212	20
106148	205 294	< 5	40	17.0	1750	2.6	6.44	280	2.5	4	0.59	27.0	3	214	22
106149	205 294	< 5	56	24	1390	2.4	5.07	200	2.0	6	2.05	17.5	3	303	29
106150	205 294	< 5	44	18.0	1800	1.2	7.51	310	3.5	< 2	0.19	19.0	3	254	18

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
 Total Pages: 1
 Certificate Date: 28 SEP-96
 Invoice No.: 19632933
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9632933

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105801	205 294	1.76	3.32	0.76	240	3	0.15	4	320	10	66	0.17	37	< 10	70
105802	205 294	2.11	3.23	0.57	350	8	0.16	15	300	32	206	0.17	225	< 10	628
105803	205 294	1.65	2.61	0.57	130	4	0.10	4	310	8	64	0.14	23	< 10	46
105804	205 294	2.31	2.59	0.54	160	6	0.11	32	1410	12	94	0.12	173	< 10	236
105805	205 294	3.36	2.67	0.50	140	16	0.13	51	1410	40	81	0.13	381	< 10	550
105806	205 294	2.68	4.26	0.48	90	3	0.69	5	590	22	79	0.23	27	< 10	56
105807	205 294	2.73	4.56	0.38	95	4	1.21	5	610	28	88	0.23	32	< 10	66
105808	205 294	1.17	3.76	0.57	230	1	0.26	4	470	24	151	0.18	22	< 10	38
106118	205 294	1.14	0.83	0.24	250	4	0.07	39	240	24	96	0.08	120	< 10	150
106119	205 294	3.26	0.84	0.43	4380	4	0.03	44	370	24	152	0.09	117	< 10	340
106120	205 294	0.92	0.41	0.15	180	5	0.04	24	130	32	118	0.04	74	< 10	152
106121	205 294	6.33	0.72	0.80	6900	6	0.10	45	1890	16	524	0.07	88	10	32
106122	205 294	6.13	0.50	0.46	2690	8	0.02	27	940	172	368	0.09	150	10	1850
106123	205 294	1.84	0.86	0.51	255	1	0.14	55	210	4	122	0.15	76	< 10	88
106124	205 294	1.83	0.70	0.47	2100	2	0.07	63	140	< 2	207	0.11	78	< 10	90
106125	205 294	1.95	0.91	0.99	1165	1	0.05	48	390	< 2	132	0.13	136	< 10	128
106126	205 294	2.39	0.73	0.61	615	8	0.08	63	1910	< 2	178	0.13	332	< 10	316
106127	205 294	2.32	1.16	0.73	545	6	0.04	55	2010	6	150	0.11	169	< 10	218
106139	205 294	3.17	2.73	1.85	625	11	0.11	48	860	52	174	0.14	320	10	434
106140	205 294	7.33	0.50	5.71	660	4	0.03	22	50	26	413	0.01	236	30	98
106141	205 294	3.89	4.51	3.38	445	9	0.38	29	140	12	308	0.15	414	10	98
106142	205 294	1.67	2.10	1.13	915	11	0.20	27	420	10	296	0.08	320	< 10	190
106143	205 294	2.21	1.96	0.91	1480	11	0.05	69	620	16	305	0.07	310	10	1670
106144	205 294	1.67	2.76	0.48	95	17	0.18	29	190	86	27	0.13	477	< 10	1115
106145	205 294	1.53	2.79	0.53	70	10	0.18	27	130	44	24	0.11	272	< 10	662
106146	205 294	1.59	2.67	0.46	125	16	0.16	30	160	180	36	0.12	520	< 10	1790
106147	205 294	1.78	3.39	0.57	65	12	0.21	34	200	52	23	0.14	411	< 10	1000
106148	205 294	1.90	2.97	0.61	90	18	0.16	27	170	98	23	0.13	591	< 10	1555
106149	205 294	2.08	2.29	0.50	215	13	0.11	29	180	70	69	0.12	379	< 10	962
106150	205 294	1.80	3.58	0.75	50	14	0.19	29	180	48	18	0.14	416	< 10	1140

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

O: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 3 4

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

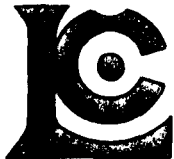
Billing: For analysis performed on
Certificate A9632934

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
14	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	507.50
				Total Cost \$ 507.50
				Client Discount (25%) \$ 126.88
				Net Cost \$ 380.62
				(Reg# R100938885) GST \$ 26.64
				TOTAL PAYABLE (CDN) \$ 407.26



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC 1 A
 Tot 1
 Date: 28 SEP-96
 Invoice #: I9632934
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632934

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	7.67 7.52	1180 1155	0.5 0.5	12 < 2	2.10 2.04	0.5 1.0	20 16	101 97	190 177
GEO-96 CHEMEX MEAN	Std1	1	----- -----	62 64	4.8 4.5	180 168	6.6 5.5	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	Std1	1	95 92	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION:

See below



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC: 1 B
 Tot L: 1
 Date: 28-SEP-96
 Invoice #: 19632934
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632934

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 ---	1 ---	5.01 4.41	1.85 1.86	1.07 1.03	1050 927	11 9	1.07 1.03	23 20	610 648	----- -----	229 226	0.37 0.35	159 156	20 20	196 186
GEO-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	140 120	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632934

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632934

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 28-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	14	Geochem ring to approx 150 mesh
294	14	4-7 Kg crush and split
3202	14	Rock - save entire reject
285	14	ICP - HF digestion charge
287	14	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	14	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	14	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	14	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	14	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	14	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	14	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	14	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	14	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	14	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	14	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	14	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	14	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	14	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	14	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	14	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	14	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	14	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	14	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	14	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	14	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	14	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	14	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	14	Pb ppm: 24 element, rock & core	AAS	2	10000
582	14	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	14	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	14	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	14	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	14	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page er : 1 A
 Total Pages : 1
 Certificate Date: 28 SEP-96
 Invoice No. : 19632934
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9632934

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105717	205 294	< 5	1	0.6	40	0.4	1.68	760	0.5	< 2	0.24	< 0.5	8	185	83
105718	205 294	< 5	1	1.0	10	0.4	2.36	440	0.5	< 2	0.21	< 0.5	5	145	123
105719	205 294	30	1	8.0	90	0.2	1.57	140	< 0.5	2	0.14	< 0.5	3	161	40
105720	205 294	25	56	4.0	50	0.6	1.89	120	< 0.5	4	0.36	< 0.5	5	121	19
105721	205 294	15	2	4.8	140	< 0.2	2.49	120	1.0	2	0.26	< 0.5	4	107	19
105722	205 294	30	20	10.0	690	1.0	1.74	130	5.5	2	1.16	3.5	7	124	51
105723	205 294	80	74	16.5	610	1.8	1.26	150	4.0	4	2.45	4.5	7	139	60
105724	205 294	35	16	14.0	680	1.2	1.01	100	2.0	2	0.47	4.0	7	208	94
105725	205 294	60	72	26	270	0.8	1.86	110	1.5	2	0.87	< 0.5	5	168	38
105739	205 294	15	12	24	10	6.0	4.43	690	1.0	266	9.01	< 0.5	14	63	116
105740	205 294	< 5	2	7.2	20	< 0.2	7.51	1780	< 0.5	10	4.08	< 0.5	14	37	18
105741	205 294	< 5	1	14.0	40	2.6	6.28	1740	< 0.5	156	0.65	0.5	16	54	127
105742	205 294	< 5	1	9.2	10	1.2	6.14	1830	< 0.5	196	0.48	1.0	18	50	52
105743	205 294	10	1	7.0	10	0.4	7.17	1420	< 0.5	52	0.46	< 0.5	20	63	28

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1 B
 Total Pages : 1
 Certificate Date: 28-SEP-96
 Invoice No. : I9632934
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632934

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105717	205 294	2.08	0.39	0.27	180	6	0.03	59	130	4	131	0.09	64	< 10	208
105718	205 294	2.20	0.47	0.27	135	3	0.05	45	210	2	82	0.13	87	< 10	146
105719	205 294	5.16	0.15	0.22	150	3	0.01	29	190	< 2	51	0.08	58	< 10	124
105720	205 294	15.30	0.08	0.44	1225	12	0.01	33	920	< 2	70	0.09	89	< 10	270
105721	205 294	11.15	0.18	0.54	670	8	0.03	25	690	< 2	57	0.07	79	< 10	380
105722	205 294	8.35	0.60	0.16	365	31	0.01	29	4020	160	41	0.06	189	< 10	2630
105723	205 294	11.20	0.42	0.09	410	45	0.01	29	>10000	800	83	0.04	320	10	2090
105724	205 294	5.78	0.35	0.08	380	21	0.01	26	1240	340	41	0.03	130	< 10	2060
105725	205 294	4.71	0.81	0.22	120	5	0.03	52	1380	36	31	0.06	98	< 10	202
105739	205 294	5.04	1.81	2.43	1920	3	0.14	7	270	150	227	0.06	27	10	118
105740	205 294	9.20	0.79	5.98	1700	4	0.28	2	430	4	132	0.09	23	20	320
105741	205 294	6.55	1.06	4.10	820	5	0.18	3	290	360	24	0.07	17	< 10	480
105742	205 294	7.01	0.98	3.80	730	4	0.17	3	240	134	19	0.07	14	< 10	352
105743	205 294	9.01	0.78	4.30	860	4	0.21	3	260	20	19	0.08	17	< 10	162

CERTIFICATION:

Hank Beckler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 8 5

BILLING INFORMATION

Date: 30-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632985

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

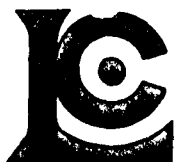
# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
9	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1109.88

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	1151.88
	Client Discount (25% of \$1144.88)\$	-286.22
	Net Cost \$	865.66
	(Reg# R100938885) GST \$	60.60
	TOTAL PAYABLE (CDN) \$	926.26

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F : 1-A
 Tot Qc . g: 1
 Date: 29-OCT-96
 Invoice #: 19632985
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9632985

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHRUSH FA	Ag g/t	Cu %	Pb %	ZnBa (XRF)Spec Gr % ppm S.G.	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	0.008 0.008	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	0.67 0.67	3.58 3.58	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.55 0.62	173 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.82 0.83	0.44 0.45	0.92 0.95	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	2.61 2.62	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	4.0 4.3	5.70 5.72	300 285	< 10 < 10	< 20 < 20	3.15 3.50	< 10 < 10	380 364	210 266

CERTIFICATION: Hant Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F. #: 1 B
 Tot QC Pg: 1
 Date: 29-OCT-96
 Invoice #: 19632985
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9632985

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1	9950 9440	19.55 19.35	0.9 0.8	2.75 2.70	990 961	< 10 < 10	1.50 1.38	11450 11050	0.010 0.007	240 221	0.30 0.29	110 115	580 191

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
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P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9632985

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632985

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

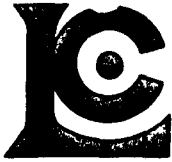
Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	9	RUSH Assay ring approx 150 mesh
295	9	RUSH crush and split (0-3 Kg)
3202	9	Rock - save entire reject
290	9	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	9	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	9	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	9	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	9	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	9	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	9	Ba ppm	XRF	10	50000
444	9	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	9	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	9	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	9	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	9	Ag ppm: high grade 24 element	AAS	0.5	200
4031	9	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	9	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	9	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	9	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	9	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	9	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	9	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	9	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	9	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	9	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	9	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	9	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	9	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	9	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	9	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	9	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	9	Pb %: high grade 24 element	AAS	0.001	10.00
4047	9	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	9	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	9	V ppm: A22 ICP package	ICP-AES	10	50000
4050	9	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

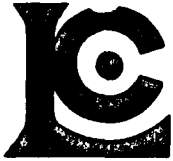
Page: 1 of 1
 Total Pages: 1
 Certificate Date: 29-OCT-96
 Invoice No.: 19632985
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9632985

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr ppm S.G.)	As %	Sb %	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)			
			RUSH	RUSH FA						AAS											
105853	258	295	< 0.07	27	0.30	0.25	9.52	2040	3.18	< 0.01	0.01	< 0.001	30.0	3.25	1100	< 10	20	4.00	1040	30	80
105877	258	295	1.37	389	1.72	1.67	9.61	370	4.62	0.16	0.04	0.001	>200	0.40	400	< 10	< 20	0.95	860	20	80
105878	258	295	1.58	374	1.39	1.25	13.50	280	4.53	0.23	0.03	< 0.001	>200	0.40	300	< 10	< 20	0.45	1370	60	70
105879	258	295	1.13	218	0.83	1.11	9.32	250	4.63	0.20	0.02	< 0.001	>200	0.35	200	< 10	< 20	0.45	960	30	60
105880	258	295	0.93	274	0.62	1.64	20.0	180	4.54	0.20	0.02	< 0.001	>200	0.30	100	< 10	< 20	0.40	2040	50	40
105881	258	295	1.10	370	1.40	1.81	17.00	110	4.65	0.21	0.03	< 0.001	>200	0.30	< 100	< 10	< 20	0.30	1730	30	40
105882	258	295	0.27	102	0.50	0.90	18.90	130	4.51	0.05	< 0.01	0.001	110.0	0.25	< 100	< 10	< 20	0.30	2140	50	40
105883	258	295	0.48	108	1.02	0.45	19.20	120	4.49	0.04	0.01	0.001	112.0	0.25	< 100	< 10	< 20	0.50	2040	100	50
105884	258	295	1.82	366	7.78	1.06	11.30	2060	4.36	0.13	0.01	0.001	>200	0.90	100	< 10	< 20	0.40	1170	80	80

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-B
Total Pages: 1
Certificate Date: 29-OCT-96
Invoice No.: 19632985
P.O. Number: 6406
Account: GP W

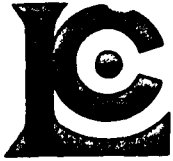
CERTIFICATE OF ANALYSIS

A9632985

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105853	258	295	3040	11.15	1.3	3.25	1820	30	0.05	20	0.254	110	< 0.05	570	90400
105877	258	295	17280	>30.0	< 0.1	0.35	380	70	< 0.05	50	1.600	40	< 0.05	70	90300
105878	258	295	13930	>30.0	< 0.1	0.20	250	40	< 0.05	30	1.200	20	< 0.05	40	>100000
105879	258	295	9130	>30.0	< 0.1	0.20	180	10	< 0.05	10	1.100	30	< 0.05	30	89100
105880	258	295	6280	>30.0	< 0.1	0.15	380	20	< 0.05	40	1.630	10	< 0.05	10	>100000
105881	258	295	14520	>30.0	< 0.1	0.10	300	10	< 0.05	20	1.770	< 10	< 0.05	< 10	>100000
105882	258	295	5280	>30.0	< 0.1	0.10	300	10	< 0.05	20	0.844	10	< 0.05	< 10	>100000
105883	258	295	10240	>30.0	< 0.1	0.15	620	< 10	< 0.05	20	0.429	10	< 0.05	< 10	>100000
105884	258	295	87000	>30.0	0.2	0.25	800	50	< 0.05	50	1.050	10	< 0.05	110	>100000

CERTIFICATION:

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 8 6

BILLING INFORMATION

Date: 16-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632986

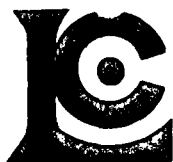
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	379.28

Total Cost \$	379.28
Client Discount (25%) \$	-94.82
Net Cost \$	284.46
(Reg# R100938885) GST \$	19.91
TOTAL PAYABLE (CDN) \$	304.37



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632986

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632986

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O.#: 6406

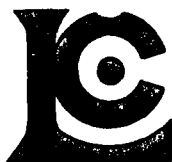
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 14-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	4	RUSH Geo ring to approx 150 mesh
295	4	RUSH crush and split (0-3 Kg)
3202	4	Rock - save entire reject
285	4	ICP - HF digestion charge
287	4	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	4	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	4	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	4	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	4	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	4	Ba ppm	XRF	10	50000
444	4	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	4	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	4	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	4	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	4	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	4	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	4	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	4	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	4	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	4	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	4	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	4	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	4	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	4	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	4	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	4	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	4	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	4	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	4	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	4	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	4	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	4	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	4	Pb ppm: 24 element, rock & core	AAS	2	10000
582	4	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	4	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	4	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	4	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	4	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1 of 1
Total Pages: 1
Certificate Date: 14-OCT-96
Invoice No.: 19632986
P.O. Number: 6406
Account: GP W

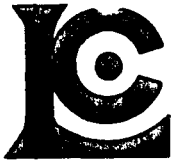
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9632986

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH								AAS									
105875	255	295	25	1.4	0.01	< 0.01	0.05	14890	2.65	28	10.0	100	1.0	4.10	100	2.5	14	3.94	1.5	9	133
105876	255	295	70	8.5	0.03	0.01	0.30	7600	2.59	66	28	450	7.0	3.24	120	3.0	6	0.19	30.5	7	184
105885	255	295	20	0.9	0.01	< 0.01	0.05	5940	2.69	46	18.0	180	0.4	4.62	120	2.5	10	3.85	1.5	9	143
105886	255	295	25	2.4	0.05	0.01	0.09	3230	2.65	48	9.4	510	2.0	4.86	140	0.5	2	4.76	7.0	4	90

CERTIFICATION:

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
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Page Number: 1-B
Total Pages: 1
Certificate Date: 14-OCT-96
Invoice No.: 19632986
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS

A9632986

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105875	255	295	55	3.17	1.77	2.00	1480	10	0.07	47	640	16	255	0.17	121	< 10	524
105876	255	295	262	3.19	0.93	0.46	90	6	0.08	85	660	100	50	0.12	175	< 10	3050
105885	255	295	86	3.17	1.85	2.07	1230	7	0.11	38	490	20	102	0.21	92	10	418
105886	255	295	472	3.50	1.09	1.26	300	7	1.09	20	2100	44	149	0.07	57	10	810

CERTIFICATION:

Hartl Buchler



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 2 9 8 7

BILLING INFORMATION

Date: 18-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9632987

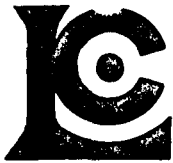
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	568.92

Total Cost \$	568.92
Client Discount (25%) \$	-142.23
Net Cost \$	426.69
(Reg# R100938885) GST \$	29.87
TOTAL PAYABLE (CDN) \$	456.56



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

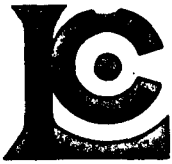
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 Tot QC mg: 1
 Date: 17-OCT-96
 Invoice #: 19632987
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE	A9632987
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STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.	As ppm	Sb ppm	Hg Ag ppm ppb AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
G96-TOT CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	7.80 7.52	1160 1155	0.5 0.5	6 < 2	2.08 2.04	< 0.5 1.0	17 16	96 97
GEO-90 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	850 865	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
GEO-96 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	58 64	4.6 4.5	120 168	6.0 5.5	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	std1 ---	1 ---	100 92	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----- -----	22.4 22.2	0.82 0.83	0.45 0.45	0.92 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	2.57 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: Hart Bichler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC P: 1-B
 Tot Q: 1
 Date: 17-OCT-96
 Invoice #: 19632987
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE **A9632987**

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1 1	202	4.88	1.81	1.05	975	11	1.03	21	660	-----	228	0.37	153	20	198
CHEMEX MEAN	----	177	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-90	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	130	-----	-----	-----	-----	-----
CHEMEX MEAN	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Hart Buchler



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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9632987

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9632987

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 17-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	6	RUSH Geo ring to approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
285	6	ICP - HF digestion charge
287	6	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	6	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	6	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	6	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	6	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	6	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	6	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	6	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	6	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	6	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	6	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	6	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	6	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	6	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	6	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	6	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	6	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	6	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	6	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	6	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	6	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	6	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	6	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	6	Pb ppm: 24 element, rock & core	AAS	2	10000
582	6	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	6	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	6	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	6	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	6	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-A
 Total Pages: 1
 Certificate Date: 17-OCT-96
 Invoice No.: 19632987
 P.O. Number: 6406
 Account: GP W

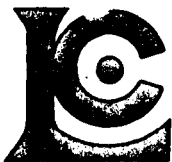
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9632987

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH																	
105851	255	295	< 5	0.5	0.04	0.01	0.35	1745	2.71	1	0.4	520	0.4	5.48	690	< 0.5	< 2	2.46	29.0	8	51
105852	255	295	< 5	5.9	0.24	0.03	0.62	1190	2.79	1	1.8	1310	5.2	5.69	240	< 0.5	10	2.32	241	15	37
105854	255	295	15	5.1	0.31	0.02	2.16	775	2.77	2	5.2	380	4.4	6.29	600	< 0.5	2	1.17	60.5	9	40
105855	255	295	105	21.4	0.22	0.06	5.39	910	3.02	120	72	3280	20.0	1.10	30	< 0.5	12	0.78	>500	22	179
105856	255	295	90	26.5	0.86	0.02	0.74	1705	2.83	2	9.2	680	24.4	5.05	170	< 0.5	10	1.97	73.0	16	63
105857	255	295	100	45.3	0.91	0.03	0.22	1435	2.08	1	7.8	240	43.0	5.60	180	< 0.5	22	1.37	20.5	14	81

CERTIFICATION: Hart Buchler



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

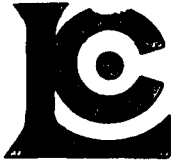
Page Number: 1-B
Total Pages: 1
Certificate Date: 17-OCT-96
Invoice No.: 19632987
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS A9632987

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105851	255	295	348	5.83	1.17	4.27	885	4	0.19	3	270	104	69	0.10	13	20	3150
105852	255	295	3260	8.15	0.85	5.34	1105	5	0.22	5	290	184	67	0.10	24	40	>10000
105854	255	295	2320	7.82	0.49	5.03	915	6	0.24	5	300	216	35	0.11	16	30	5680
105855	255	295	2320	11.00	0.46	0.31	165	12	0.01	35	750	436	20	0.01	362	20	>10000
105856	255	295	8130	7.45	1.33	3.85	840	5	0.17	4	300	168	59	0.09	30	20	7790
105857	255	295	9430	8.33	0.89	4.15	850	5	0.20	< 1	220	260	43	0.08	12	30	2450

CERTIFICATION:

Hart Buchler



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 3 0 9 8

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9633098

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
22	205 - Geochem ring to approx 150 mesh	2.50		
	276 - 8-12 Kg crush and split	5.00		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	37.75	830.50

Total Cost \$	830.50
Client Discount (25%) \$	-207.63
Net Cost \$	622.87
(Reg# R100938885) GST \$	43.60
TOTAL PAYABLE (CDN) \$	666.47



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P. 1-A
 Tot Q. 1
 Date: 28-SEP-96
 Invoice #: 19633098
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633098

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	7.57 7.52	1170 1155	0.5 0.5	10 < 2	2.08 2.04	1.0 1.0	20 16	98 97	181 177
GEO-96 CHEMEX MEAN	Std1	1	----	60 64	4.6 4.5	150 168	5.6 5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1	1	95 92	----	----	----	----	----	----	----	----	----	----	----	----	----
175105	Dupl-01 Origl-01		< 5 < 5	2 2	1.6 1.6	< 10 < 10	< 0.2 < 0.2	6.54 6.61	1430 1480	1.0 1.5	6 8	0.23 0.23	< 0.5 < 0.5	9 9	170 160	17 17

CERTIFICATION: *Hart Bichler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

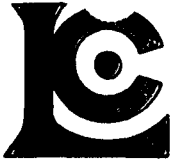
QC P: 1-B
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 Date: 28-SEP-96
 Invoice #: 19633098
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 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633098

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std	1	4.81	1.86	1.04	1045	9	1.10	24	630	-----	228	0.35	159	10	192
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std	1	-----	-----	-----	-----	-----	-----	-----	-----	126	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1	Std	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
175105	Dupl	-01	4.07	2.24	1.97	385	4	0.22	3	320	< 2	17	0.11	19	< 10	68
	Orig	-01	4.14	2.28	1.99	400	3	0.20	3	340	< 2	17	0.11	20	< 10	74

CERTIFICATION: *Harris Beckton*



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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A9633098

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633098

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 28-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	22	Geochem ring to approx 150 mesh
276	22	8-12 Kg crush and split
3202	22	Rock - save entire reject
285	22	ICP - HF digestion charge
287	22	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	22	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	22	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	22	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	22	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	22	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	22	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	22	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	22	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	22	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	22	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	22	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	22	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	22	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	22	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	22	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	22	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	22	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	22	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	22	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	22	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	22	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	22	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	22	Pb ppm: 24 element, rock & core	AAS	2	10000
582	22	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	22	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	22	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	22	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	22	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Co: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total : 1
 Certificate Date: 28-SEP-96
 Invoice No. : 19633098
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633098

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175105	205 276	< 5	2	1.6	< 10	< 0.2	6.61	1480	1.5	8	0.23	< 0.5	9	160	17
175106	205 276	< 5	24	2.0	10	1.6	7.16	520	1.5	18	0.71	< 0.5	12	166	48
175107	205 276	< 5	1	1.6	< 10	1.8	8.17	350	2.5	12	1.81	< 0.5	14	142	58
175108	205 276	20	2	1.6	10	8.0	6.92	1230	2.0	42	0.41	< 0.5	8	126	30
175109	205 276	< 5	6	0.6	< 10	< 0.2	7.37	2930	2.0	6	0.58	< 0.5	7	113	12
175110	205 276	< 5	1	2.4	< 10	< 0.2	7.38	2790	2.0	6	0.65	< 0.5	8	130	18
175111	205 276	< 5	2	1.8	10	< 0.2	7.27	2870	2.5	12	1.51	< 0.5	7	113	22
175112	205 276	< 5	4	1.8	10	< 0.2	8.08	1140	2.0	8	0.59	< 0.5	7	83	13
175113	205 276	< 5	1	3.8	10	< 0.2	8.91	2510	2.5	14	0.62	< 0.5	7	115	7
175114	205 276	< 5	16	3.6	90	< 0.2	7.13	270	2.5	2	1.45	1.0	6	188	9
175115	205 276	< 5	6	2.2	60	< 0.2	7.41	210	3.0	2	2.51	< 0.5	5	147	6
175116	205 276	< 5	8	3.8	160	< 0.2	7.58	210	3.5	6	0.89	< 0.5	6	195	6
175117	205 276	< 5	8	3.2	40	< 0.2	7.35	220	3.5	< 2	1.09	< 0.5	5	189	5
175118	205 276	< 5	4	2.8	20	< 0.2	7.94	370	3.0	< 2	1.71	< 0.5	6	218	5
175119	205 276	< 5	18	4.6	80	< 0.2	7.49	180	3.0	2	1.59	< 0.5	5	160	6
175120	205 276	< 5	24	12.0	530	0.6	6.46	170	2.5	4	5.92	1.5	5	248	18
175121	205 276	< 5	22	16.0	720	0.4	7.52	200	3.0	8	1.28	2.5	5	236	11
175122	205 276	< 5	18	7.4	480	0.6	8.14	190	2.5	2	0.99	< 0.5	5	171	8
175123	205 276	< 5	18	12.5	810	0.4	6.71	230	4.5	8	1.12	6.5	4	241	13
175124	205 276	< 5	28	13.5	240	1.0	6.13	130	3.5	4	0.87	2.5	4	259	15
175125	205 276	< 5	4	4.2	90	< 0.2	7.78	350	2.5	2	1.36	< 0.5	5	280	5
175126	205 276	< 5	4	3.4	100	< 0.2	7.10	200	1.5	6	0.18	< 0.5	4	258	4

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1-B
 Total: 1
 Certificate Date: 28-SEP-96
 Invoice No.: I9633098
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633098

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175105	205 276	4.14	2.28	1.99	400	3	0.20	3	340	< 2	17	0.11	20	< 10	74
175106	205 276	3.96	2.85	1.96	555	3	0.23	3	420	28	37	0.12	24	< 10	92
175107	205 276	3.90	3.57	2.29	740	4	0.27	5	420	40	59	0.14	37	< 10	64
175108	205 276	2.63	2.77	1.98	295	3	0.19	3	340	440	24	0.12	23	< 10	80
175109	205 276	2.83	2.79	2.61	490	4	0.26	3	360	< 2	23	0.13	19	< 10	64
175110	205 276	3.00	2.94	2.82	535	4	0.25	4	360	< 2	30	0.14	21	< 10	66
175111	205 276	2.25	3.37	2.50	500	3	0.26	4	320	< 2	63	0.14	33	< 10	50
175112	205 276	3.05	3.53	3.90	445	5	0.28	3	360	6	47	0.16	23	< 10	86
175113	205 276	2.82	3.43	3.98	345	6	0.28	4	410	2	44	0.16	25	< 10	76
175114	205 276	1.96	3.16	0.57	130	5	0.23	7	350	20	46	0.17	51	< 10	94
175115	205 276	1.57	3.43	0.60	215	4	0.23	5	380	34	76	0.19	20	< 10	26
175116	205 276	2.25	3.67	0.85	120	4	0.22	4	380	18	32	0.19	21	< 10	12
175117	205 276	2.14	3.39	0.93	205	4	0.22	2	340	20	30	0.18	19	< 10	12
175118	205 276	1.78	3.73	1.60	215	5	0.26	4	390	12	53	0.18	20	< 10	30
175119	205 276	1.66	3.56	1.05	150	5	0.23	4	350	14	72	0.18	21	< 10	42
175120	205 276	1.81	3.40	0.99	370	8	0.18	19	1230	26	231	0.16	130	< 10	140
175121	205 276	2.14	3.55	0.90	140	9	0.24	19	540	30	44	0.16	174	< 10	218
175122	205 276	3.52	3.42	0.87	125	5	0.27	3	350	68	40	0.18	32	< 10	38
175123	205 276	1.91	3.24	0.89	160	10	0.21	24	470	38	33	0.13	199	< 10	436
175124	205 276	3.63	2.92	0.82	120	8	0.18	24	810	40	43	0.12	193	< 10	194
175125	205 276	1.51	3.08	0.45	210	4	0.26	8	810	20	108	0.16	33	< 10	76
175126	205 276	1.48	2.83	0.14	25	3	0.26	12	680	12	58	0.13	41	< 10	16

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

J: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 3 1 8 4

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6410
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9633184

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
136	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	4930.00

Total Cost \$	4930.00
Client Discount (25%) \$	-1232.50
Net Cost \$	3697.50
(Reg# R100938885) GST \$	258.83
TOTAL PAYABLE (CDN) \$	3956.33

1st half 1
WV-96-51
171 529
to 171 664



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot QL 2
 Date: 28-SEP-96
 Invoice #: 19633184
 P.O. #: 6410
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633184

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1	1	----	----	----	----	----	7.81	1050	1.0	2	2.16	< 0.5	19	104	183
G96-TOT	Std2	1	----	----	----	----	----	8.05	1260	0.5	2	2.20	0.5	19	101	193
G96-TOT	Std1	2	----	----	----	----	----	7.90	1230	0.5	< 2	2.15	1.0	19	98	189
G96-TOT	Std2	2	----	----	----	----	----	7.53	1040	0.5	< 2	2.08	0.5	18	107	187
G96-TOT	Std1	3	----	----	----	----	----	7.43	1120	0.5	< 2	2.05	0.5	19	100	183
G96-TOT	Std2	3	----	----	----	----	----	7.57	1240	0.5	2	2.11	0.5	19	98	190
G96-TOT	Std1	4	----	----	----	----	----	6.97	1080	0.5	< 2	1.85	0.5	16	88	167
CHEMEX MEAN	---	---	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	----	58	5.0	190	5.8	----	----	----	----	----	----	----	----	----
GEO-96	Std2	1	----	58	4.6	140	5.4	----	----	----	----	----	----	----	----	----
GEO-96	Std1	2	----	58	4.6	150	7.0	----	----	----	----	----	----	----	----	----
GEO-96	Std2	2	----	58	4.6	170	6.0	----	----	----	----	----	----	----	----	----
GEO-96	Std1	3	----	60	5.0	160	5.6	----	----	----	----	----	----	----	----	----
GEO-96	Std2	3	----	58	4.8	170	5.4	----	----	----	----	----	----	----	----	----
GEO-96	Std1	4	----	58	4.8	190	5.4	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
JL-1	Std1	2	140	----	----	----	----	----	----	----	----	----	----	----	----	----
JL-1	Std2	3	95	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	92	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	20	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	3	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.29	20	< 0.5	< 2	0.01	< 0.5	< 1	2	< 1	< 1
SIO2-T3	Blnk	2	----	----	----	----	0.28	20	< 0.5	< 2	0.01	< 0.5	< 1	< 1	< 1	< 1
SIO2-T3	Blnk	3	----	----	----	----	0.30	30	< 0.5	< 2	0.02	< 0.5	< 1	1	< 1	< 1
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	5	2
SL-96	Std2	1	755	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	Std1	3	765	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1	1	230	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: *Haut Buchler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC P#: 1-B
 Tot Q: 2
 Date: 28-SEP-96
 Invoice #: 19633184
 P.O. #: 6410
 GP W

QC DATA OF CERTIFICATE A9633184

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1	1	4.79	1.81	1.05	1085	10	1.07	25	670	----	240	0.36	162	20	190
G96-TOT	Std2	1	4.98	1.89	1.08	1080	10	1.13	24	650	----	243	0.38	167	30	200
G96-TOT	Std1	2	4.91	1.85	1.05	1090	9	1.09	23	630	----	238	0.34	162	20	196
G96-TOT	Std2	2	4.73	1.79	1.06	1020	10	1.11	23	650	----	239	0.36	155	30	198
G96-TOT	Std1	3	4.76	1.77	1.02	1035	11	1.03	24	640	----	227	0.34	158	30	190
G96-TOT	Std2	3	4.94	1.89	1.06	1050	11	1.09	24	640	----	238	0.34	162	30	194
G96-TOT	Std1	4	4.31	1.68	0.92	950	9	0.98	21	540	----	210	0.32	141	20	170
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	Std1	1	----	----	----	----	----	----	----	----	142	----	----	----	----	----
GEO-96	Std2	1	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	Std1	2	----	----	----	----	----	----	----	----	132	----	----	----	----	----
GEO-96	Std2	2	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	Std1	3	----	----	----	----	----	----	----	----	126	----	----	----	----	----
GEO-96	Std2	3	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	Std1	4	----	----	----	----	----	----	----	----	134	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
JL-1	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JL-1	Std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	4	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	6	----	----	----	----	----
SIO2-G2	Blnk	3	----	----	----	----	----	----	----	----	4	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.04	0.06	< 0.01	< 5	< 1	0.01	< 1	160	----	142	0.01	2	< 10	< 2
SIO2-T3	Blnk	2	0.04	0.04	< 0.01	< 5	< 1	< 0.01	< 1	140	----	146	0.01	1	< 10	< 2
SIO2-T3	Blnk	3	0.05	0.06	0.01	< 5	< 1	0.01	< 1	150	----	142	0.01	2	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	Std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

PROJECT: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

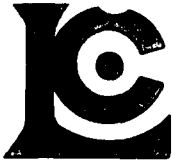
QC P
Tot C
Date: 28-SEP-96
Invoice #: 19633184
P.O. #: 6410
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633184

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
WC-96	Std2 2	225	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1 4	400	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
171529	Dup1-01 Orig1-01	< 5 < 5	6 6	0.2 0.2	10 < 10	< 0.2 < 0.2	3.51 3.53	3860 3800	0.5 0.5	2 < 2	0.32 0.32	< 0.5 < 0.5	13 13	225 194	83 84
171569	Dup2-01 Orig2-01	< 5 < 5	2 2	< 0.2 < 0.2	30 20	< 0.2 < 0.2	3.44 3.50	570 570	0.5 0.5	4 6	1.10 1.13	< 0.5 < 0.5	10 9	188 190	66 67
171609	Dup3-01 Orig3-01	< 5 < 5	2 2	0.2 0.2	70 90	< 0.2 < 0.2	4.38 4.05	620 550	1.0 0.5	6 < 2	0.78 0.75	< 0.5 < 0.5	13 11	185 192	93 90
171649	Dup4-01 Orig4-01	15 < 5	8 10	1.2 1.2	40 30	0.2 < 0.2	1.51 1.60	170 170	0.5 0.5	< 2 < 2	0.25 0.28	< 0.5 < 0.5	6 5	98 99	66 67

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9633184

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633184

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6410

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 28-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	136	Geochem ring to approx 150 mesh
294	136	4-7 Kg crush and split
3202	136	Rock - save entire reject
285	136	ICP - HF digestion charge
287	136	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	136	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	136	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	136	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	136	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	136	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	136	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	136	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	136	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	136	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	136	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	136	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	136	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	136	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	136	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	136	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	136	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	136	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	136	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	136	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	136	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	136	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	136	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	136	Pb ppm: 24 element, rock & core	AAS	2	10000
582	136	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	136	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	136	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	136	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	136	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

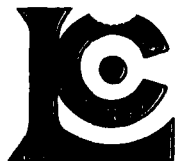
QC # 2 B
 Tot Gr: 2
 Date: 28-SEP-96
 Invoice #: I9633184
 P.O. #: 6410
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633184

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
WC-96	Std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1	4	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
171529	Dup1	01	2.17	1.09	0.79	410	2	0.37	38	290	6	37	0.19	63	< 10	70
	Orig1	01	2.18	1.10	0.80	405	3	0.37	42	280	4	36	0.19	63	< 10	72
171569	Dup2	01	1.87	1.48	0.94	705	1	0.34	37	370	6	92	0.16	78	< 10	76
	Orig2	01	1.91	1.51	0.95	720	1	0.35	40	400	8	94	0.19	81	< 10	78
171609	Dup3	01	2.51	1.58	1.06	1380	3	0.08	87	610	12	154	0.19	123	< 10	164
	Orig3	01	2.38	1.49	1.03	1305	3	0.08	79	550	16	148	0.19	116	< 10	164
171649	Dup4	01	1.10	0.47	0.23	135	4	0.03	65	40	8	95	0.05	59	< 10	48
	Orig4	01	1.16	0.49	0.25	140	5	0.02	62	40	4	102	0.04	62	< 10	54

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.
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Project: WOLVERINE
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Page: 1-A
Total: 4
Certificate Date: 28-SEP-96
Invoice No.: 19633184
P.O. Number: 6410
Account: GPW

CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171529	205 294	< 5	6	0.2	< 10	< 0.2	3.53	3800	0.5	< 2	0.32	< 0.5	13	194	84
171530	205 294	< 5	4	0.2	< 10	< 0.2	3.57	4070	1.0	6	1.01	< 0.5	11	238	70
171531	205 294	< 5	16	0.4	10	< 0.2	3.18	3870	0.5	4	0.69	< 0.5	18	144	53
171532	205 294	< 5	2	0.4	70	< 0.2	5.39	4150	2.0	8	0.21	0.5	11	133	52
171533	205 294	< 5	1	0.4	20	< 0.2	4.46	1210	1.5	8	1.04	< 0.5	11	138	46
171534	205 294	< 5	2	0.4	40	< 0.2	3.28	1100	0.5	4	1.08	< 0.5	10	235	71
171535	205 294	< 5	1	0.6	40	< 0.2	4.02	780	0.5	10	1.57	< 0.5	12	277	72
171536	205 294	< 5	1	0.6	40	< 0.2	3.50	780	0.5	4	2.01	< 0.5	9	272	57
171537	205 294	< 5	1	0.8	100	< 0.2	3.62	900	1.0	4	1.84	< 0.5	9	274	47
171538	205 294	< 5	2	1.4	100	< 0.2	1.94	2260	0.5	8	7.31	< 0.5	5	267	12
171539	205 294	< 5	2	0.4	70	< 0.2	2.52	2000	0.5	6	4.34	< 0.5	7	274	68
171540	205 294	< 5	1	0.8	80	< 0.2	3.78	1240	1.0	12	0.36	< 0.5	9	305	99
171541	205 294	< 5	1	0.6	40	< 0.2	2.74	4490	0.5	< 2	0.10	< 0.5	7	217	55
171542	205 294	< 5	2	0.2	30	< 0.2	2.28	510	0.5	2	0.14	< 0.5	7	282	57
171543	205 294	< 5	1	0.6	110	< 0.2	3.11	320	0.5	< 2	0.35	< 0.5	7	238	75
171544	205 294	< 5	1	0.6	90	< 0.2	2.41	1280	0.5	< 2	5.83	0.5	5	260	30
171545	205 294	< 5	2	0.4	60	< 0.2	3.07	410	0.5	< 2	0.86	< 0.5	9	223	68
171546	205 294	< 5	12	0.2	30	< 0.2	3.05	5580	0.5	6	0.62	< 0.5	16	263	74
171547	205 294	< 5	1	0.4	70	< 0.2	3.41	550	1.0	6	1.49	< 0.5	12	254	89
171548	205 294	25	1	0.6	140	< 0.2	3.57	430	1.5	4	1.35	< 0.5	10	260	61
171549	205 294	< 5	2	0.6	190	< 0.2	3.80	390	1.5	< 2	2.48	< 0.5	11	242	64
171550	205 294	< 5	1	0.2	40	< 0.2	3.27	2820	1.0	2	2.70	< 0.5	8	259	53
171551	205 294	< 5	4	0.2	10	< 0.2	3.21	4960	0.5	< 2	1.14	< 0.5	11	148	57
171552	205 294	< 5	2	0.4	60	< 0.2	3.42	900	0.5	6	2.62	< 0.5	7	310	42
171553	205 294	< 5	1	0.4	70	< 0.2	2.96	950	0.5	< 2	0.80	< 0.5	6	267	72
171554	205 294	< 5	34	0.2	100	< 0.2	3.66	3370	0.5	< 2	0.97	< 0.5	11	304	56
171555	205 294	< 5	32	0.2	110	< 0.2	3.76	440	0.5	< 2	0.67	< 0.5	17	295	118
171556	205 294	< 5	2	< 0.2	40	< 0.2	2.83	1160	0.5	< 2	0.23	< 0.5	9	246	75
171557	205 294	< 5	4	< 0.2	60	< 0.2	3.49	2360	0.5	< 2	0.51	< 0.5	10	298	148
171558	205 294	< 5	58	0.2	240	< 0.2	4.65	660	1.0	2	1.15	< 0.5	21	420	131
171559	205 294	< 5	6	< 0.2	120	< 0.2	5.42	820	1.5	< 2	0.80	< 0.5	13	394	135
171560	205 294	< 5	2	< 0.2	60	< 0.2	2.66	2530	0.5	6	0.22	< 0.5	9	175	77
171561	205 294	< 5	1	< 0.2	60	< 0.2	3.21	1660	0.5	< 2	0.60	< 0.5	9	166	86
171562	205 294	< 5	2	< 0.2	40	< 0.2	3.89	4800	0.5	2	0.31	< 0.5	11	151	70
171563	205 294	< 5	1	< 0.2	90	< 0.2	3.54	5280	0.5	< 2	0.57	< 0.5	12	166	52
171564	205 294	< 5	1	< 0.2	70	< 0.2	3.23	6120	0.5	2	0.24	< 0.5	9	173	54
171565	205 294	< 5	1	< 0.2	40	< 0.2	3.67	1300	0.5	2	0.40	< 0.5	10	225	96
171566	205 294	< 5	2	0.2	90	< 0.2	3.50	440	0.5	< 2	1.81	< 0.5	10	229	88
171567	205 294	< 5	1	0.4	70	< 0.2	2.96	950	0.5	6	4.02	< 0.5	7	230	49
171568	205 294	< 5	2	0.2	40	< 0.2	3.19	2810	0.5	< 2	2.69	< 0.5	8	212	56

CERTIFICATION: *Hant Buchler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 PHONE: 604-984-0221 FAX: 604-984-0218

α: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page er :1-B
 Total :4
 Certificate Date: 28-SEP-96
 Invoice No. : I9633184
 P.O. Number : 6410
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171529	205 294	2.18	1.10	0.80	405	3	0.37	42	280	4	36	0.19	63	< 10	72
171530	205 294	2.11	1.44	0.95	745	3	0.09	42	480	4	82	0.19	83	< 10	86
171531	205 294	1.85	1.05	0.72	820	2	0.49	44	320	4	68	0.17	62	< 10	72
171532	205 294	2.60	2.16	1.03	410	3	0.44	40	410	10	28	0.22	110	< 10	136
171533	205 294	2.22	1.71	0.94	710	3	0.54	36	400	16	99	0.17	74	< 10	88
171534	205 294	1.87	1.33	0.87	970	3	0.16	43	450	8	80	0.17	90	< 10	80
171535	205 294	2.84	1.46	1.12	1165	4	0.24	44	570	10	108	0.24	123	< 10	102
171536	205 294	1.92	1.52	0.99	960	3	0.22	41	570	6	119	0.18	86	< 10	82
171537	205 294	2.10	1.40	0.83	655	2	0.10	45	700	14	91	0.21	89	< 10	112
171538	205 294	1.18	0.72	0.60	375	1	0.27	20	1020	8	405	0.16	53	< 10	62
171539	205 294	1.48	1.01	0.56	225	1	0.17	34	460	8	318	0.15	74	< 10	74
171540	205 294	2.44	1.45	0.63	235	3	0.07	55	250	8	41	0.21	128	< 10	114
171541	205 294	1.48	0.99	0.41	105	2	0.04	30	90	4	12	0.12	69	< 10	52
171542	205 294	1.61	0.86	0.39	210	2	0.04	41	130	4	25	0.11	67	< 10	62
171543	205 294	1.86	1.24	0.51	305	2	0.06	36	140	10	39	0.16	84	< 10	112
171544	205 294	1.52	0.85	0.66	490	2	0.12	33	820	8	497	0.16	64	< 10	80
171545	205 294	3.34	1.00	0.78	1440	2	0.07	38	580	16	82	0.15	137	< 10	112
171546	205 294	2.03	0.92	0.72	1730	1	0.09	44	260	10	78	0.17	44	< 10	70
171547	205 294	2.47	1.31	0.83	1760	3	0.09	41	420	14	152	0.17	87	< 10	102
171548	205 294	2.61	1.39	0.74	1290	3	0.10	35	500	20	128	0.18	108	< 10	122
171549	205 294	2.89	1.53	0.86	1915	5	0.14	46	630	64	241	0.16	96	< 10	270
171550	205 294	1.67	1.14	0.73	1715	3	0.30	32	300	14	314	0.13	76	< 10	64
171551	205 294	1.84	1.16	0.97	1305	2	0.20	31	290	14	146	0.15	62	< 10	62
171552	205 294	1.99	1.33	0.93	450	1	0.17	40	680	6	327	0.22	90	< 10	88
171553	205 294	1.69	1.21	0.62	285	1	0.13	58	390	8	127	0.18	87	< 10	82
171554	205 294	2.17	1.34	0.87	3930	1	0.21	67	520	10	259	0.19	95	< 10	128
171555	205 294	2.36	1.55	0.88	6680	6	0.14	185	380	6	195	0.19	128	< 10	224
171556	205 294	1.85	1.03	0.68	860	1	0.05	61	190	10	80	0.14	80	< 10	86
171557	205 294	2.19	1.28	0.82	2200	1	0.17	76	210	8	174	0.17	101	< 10	106
171558	205 294	2.45	1.71	0.90	4050	5	0.44	220	690	10	343	0.22	143	< 10	298
171559	205 294	2.93	1.94	1.06	1540	3	0.45	107	430	10	253	0.28	159	< 10	150
171560	205 294	1.58	0.89	0.56	435	1	0.05	66	160	10	73	0.14	76	< 10	98
171561	205 294	1.82	1.18	0.65	595	1	0.14	73	320	6	134	0.18	87	< 10	116
171562	205 294	2.33	1.33	1.11	585	1	0.30	42	300	14	82	0.20	89	< 10	80
171563	205 294	1.96	1.40	1.15	1135	1	0.12	43	320	12	164	0.18	77	< 10	86
171564	205 294	1.99	1.27	0.93	640	1	0.14	35	270	8	68	0.16	67	< 10	74
171565	205 294	2.32	1.24	1.05	1305	2	0.36	46	320	14	80	0.18	81	< 10	86
171566	205 294	2.08	1.44	1.35	1475	4	0.31	62	530	6	204	0.18	89	< 10	106
171567	205 294	1.90	1.16	2.11	1565	3	0.56	35	800	8	378	0.16	76	< 10	76
171568	205 294	1.80	1.17	0.99	780	1	0.47	32	600	12	234	0.18	68	< 10	68

CERTIFICATION: *David Buckler*



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Project: WOLVERINE
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Page er :2-A
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 Certificate Date: 28-SEP-96
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CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171569	205 294	< 5	2	< 0.2	20	< 0.2	3.50	570	0.5	6	1.13	< 0.5	9	190	67
171570	205 294	< 5	1	0.2	40	< 0.2	2.17	2220	< 0.5	2	7.05	< 0.5	5	191	21
171571	205 294	< 5	2	0.2	40	< 0.2	2.19	2130	0.5	4	7.21	< 0.5	6	203	25
171572	205 294	20	1	0.6	70	< 0.2	3.35	210	1.0	2	2.17	< 0.5	15	196	87
171573	205 294	< 5	28	0.2	10	< 0.2	6.51	970	0.5	< 2	5.09	< 0.5	30	161	83
171574	205 294	< 5	2	0.8	70	< 0.2	3.56	120	1.5	< 2	2.64	0.5	13	167	97
171575	205 294	< 5	18	0.2	10	< 0.2	5.33	2160	0.5	< 2	6.12	< 0.5	25	172	58
171576	205 294	< 5	1	0.4	160	< 0.2	4.21	220	1.5	< 2	1.83	1.5	13	193	69
171577	205 294	< 5	1	0.4	100	< 0.2	4.06	250	1.5	< 2	1.53	< 0.5	14	221	73
171578	205 294	< 5	2	0.2	50	< 0.2	3.41	5250	0.5	< 2	2.26	< 0.5	9	211	46
171579	205 294	< 5	1	0.2	50	< 0.2	2.41	500	0.5	< 2	5.21	< 0.5	7	172	73
171580	205 294	< 5	1	0.4	80	< 0.2	2.78	590	0.5	< 2	0.76	< 0.5	5	226	48
171581	205 294	< 5	2	0.2	50	< 0.2	3.21	1580	0.5	2	3.24	< 0.5	9	207	53
171582	205 294	< 5	1	< 0.2	60	< 0.2	3.09	5390	0.5	< 2	1.19	< 0.5	9	168	68
171583	205 294	< 5	34	< 0.2	40	< 0.2	7.42	6870	< 0.5	< 2	3.05	< 0.5	35	219	52
171584	205 294	< 5	2	< 0.2	10	< 0.2	2.35	3570	< 0.5	< 2	0.85	< 0.5	8	190	57
171585	205 294	< 5	4	< 0.2	40	< 0.2	2.98	3130	0.5	< 2	0.72	< 0.5	13	174	57
171586	205 294	< 5	44	< 0.2	10	< 0.2	7.06	3290	< 0.5	< 2	5.09	< 0.5	30	201	50
171587	205 294	< 5	4	< 0.2	30	< 0.2	2.71	3700	0.5	< 2	0.77	< 0.5	7	191	47
171588	205 294	< 5	6	0.6	50	< 0.2	2.86	1410	< 0.5	< 2	0.68	< 0.5	16	131	78
171589	205 294	< 5	1	0.2	50	< 0.2	2.59	530	0.5	< 2	0.35	< 0.5	7	173	78
171590	205 294	< 5	46	< 0.2	< 10	< 0.2	6.18	2280	< 0.5	< 2	4.68	< 0.5	33	203	48
171591	205 294	25	1	< 0.2	30	< 0.2	2.15	340	< 0.5	< 2	2.04	< 0.5	7	260	70
171592	205 294	< 5	2	0.2	60	< 0.2	2.86	420	0.5	2	2.04	< 0.5	9	220	87
171593	205 294	< 5	2	0.6	60	< 0.2	3.00	330	0.5	< 2	1.31	< 0.5	10	233	90
171594	205 294	< 5	6	0.2	30	< 0.2	3.13	4820	0.5	< 2	0.41	< 0.5	10	199	75
171595	205 294	< 5	4	0.2	20	< 0.2	3.39	1850	0.5	< 2	0.38	< 0.5	9	240	69
171596	205 294	< 5	1	0.4	80	< 0.2	3.35	280	0.5	< 2	0.87	< 0.5	7	258	67
171597	205 294	< 5	2	< 0.2	40	< 0.2	2.97	760	0.5	< 2	2.02	< 0.5	7	222	57
171598	205 294	< 5	4	< 0.2	40	< 0.2	3.37	4120	0.5	< 2	0.68	< 0.5	8	228	80
171599	205 294	< 5	4	0.2	20	< 0.2	7.49	410	1.5	2	3.80	< 0.5	32	252	109
171600	205 294	< 5	2	< 0.2	30	< 0.2	8.09	5980	2.0	2	1.57	1.5	9	136	25
171601	205 294	< 5	1	0.2	40	< 0.2	3.77	510	1.0	< 2	2.35	< 0.5	9	199	69
171602	205 294	< 5	2	0.2	50	< 0.2	3.52	530	0.5	< 2	1.51	< 0.5	8	255	66
171603	205 294	< 5	4	< 0.2	30	< 0.2	2.88	3240	0.5	< 2	0.44	< 0.5	8	205	71
171604	205 294	< 5	4	< 0.2	10	< 0.2	3.66	2060	0.5	< 2	0.89	< 0.5	11	222	65
171605	205 294	< 5	1	0.2	10	< 0.2	3.66	1880	0.5	< 2	1.01	< 0.5	10	229	67
171606	205 294	< 5	2	0.2	30	< 0.2	3.20	1920	0.5	< 2	0.89	< 0.5	8	214	70
171607	205 294	< 5	4	0.2	10	< 0.2	3.36	2400	0.5	< 2	0.72	< 0.5	9	252	82
171608	205 294	< 5	2	0.2	50	< 0.2	4.07	620	0.5	< 2	0.56	< 0.5	12	228	88

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

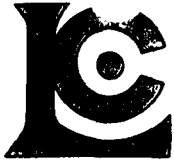
Page Number: 2-B
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 Certificate Date: 28-SEP-96
 Invoice No.: I9633184
 P.O. Number: 6410
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171569	205 294	1.91	1.51	0.95	720	1	0.35	40	400	8	94	0.19	81	< 10	78
171570	205 294	1.15	0.82	0.79	490	1	0.46	22	880	8	509	0.15	53	< 10	52
171571	205 294	1.26	0.88	0.77	680	< 1	0.41	22	810	14	511	0.14	48	< 10	54
171572	205 294	3.75	1.37	0.73	3020	4	0.37	55	570	28	144	0.17	168	< 10	110
171573	205 294	6.49	1.56	1.74	2120	1	1.47	50	980	8	407	0.86	277	30	116
171574	205 294	4.18	1.49	0.83	3240	9	0.36	75	820	26	158	0.23	194	< 10	130
171575	205 294	5.55	1.18	1.25	2140	4	1.25	41	780	14	500	0.57	219	20	80
171576	205 294	3.28	2.00	0.75	2290	5	0.18	63	510	26	132	0.21	188	< 10	366
171577	205 294	3.17	1.88	0.76	2000	5	0.18	54	490	20	128	0.24	169	< 10	168
171578	205 294	1.90	1.54	1.05	735	1	0.13	30	440	16	193	0.18	73	< 10	74
171579	205 294	1.66	1.04	0.55	2030	2	0.13	38	660	20	423	0.12	113	< 10	60
171580	205 294	1.49	1.28	0.49	1250	8	0.08	39	310	16	77	0.15	106	< 10	120
171581	205 294	1.76	1.35	0.88	865	2	0.24	32	620	10	289	0.17	67	< 10	66
171582	205 294	2.15	1.07	0.72	1280	4	0.29	40	320	28	122	0.18	97	< 10	108
171583	205 294	7.22	1.38	2.82	2370	1	1.34	63	1290	< 2	319	0.88	297	30	128
171584	205 294	2.36	0.54	0.52	980	< 1	0.41	27	430	< 2	98	0.15	83	< 10	48
171585	205 294	2.72	0.81	0.63	4470	7	0.65	38	260	8	86	0.19	97	< 10	78
171586	205 294	6.31	0.66	2.72	2380	1	2.51	50	890	8	534	0.72	261	30	90
171587	205 294	1.80	0.65	0.48	845	1	0.71	23	170	6	94	0.17	73	< 10	46
171588	205 294	6.16	0.57	0.67	>10000	1	0.77	33	260	8	118	0.16	65	10	76
171589	205 294	2.53	0.78	0.54	1535	6	0.26	46	460	14	42	0.14	105	< 10	112
171590	205 294	6.03	0.47	2.08	2740	6	2.19	40	740	8	514	0.70	244	10	138
171591	205 294	2.27	0.57	0.70	3260	1	0.34	30	280	6	213	0.10	64	< 10	62
171592	205 294	1.85	1.26	1.03	2700	4	0.12	41	500	10	160	0.14	86	< 10	76
171593	205 294	1.68	1.28	0.83	1830	6	0.20	47	400	8	123	0.14	87	< 10	80
171594	205 294	1.78	1.22	0.88	675	1	0.05	33	380	10	53	0.16	71	< 10	68
171595	205 294	1.94	1.27	0.75	725	2	0.11	35	210	4	45	0.16	84	< 10	66
171596	205 294	2.22	1.33	0.86	715	4	0.08	39	350	10	87	0.15	86	< 10	86
171597	205 294	1.95	1.17	0.98	885	1	0.10	34	470	10	198	0.14	75	< 10	78
171598	205 294	1.96	1.34	0.90	610	1	0.13	32	320	10	76	0.16	78	< 10	72
171599	205 294	6.73	2.12	1.83	3200	5	1.44	76	1460	24	425	0.90	308	30	164
171600	205 294	2.03	2.05	0.74	730	4	3.20	17	480	30	243	0.21	74	< 10	126
171601	205 294	2.34	1.39	0.78	1235	3	0.36	43	610	16	237	0.21	110	< 10	108
171602	205 294	2.15	1.26	0.88	1245	4	0.20	36	430	8	195	0.17	84	< 10	74
171603	205 294	1.70	1.06	0.71	635	1	0.11	33	370	14	63	0.14	72	< 10	62
171604	205 294	2.15	1.21	1.00	1100	1	0.42	40	400	6	121	0.16	75	< 10	78
171605	205 294	2.15	1.26	0.98	1040	2	0.26	39	340	10	131	0.17	73	< 10	72
171606	205 294	1.82	1.15	0.87	885	2	0.15	33	330	14	125	0.14	75	< 10	68
171607	205 294	2.02	1.11	0.91	1255	2	0.05	38	370	10	122	0.14	70	< 10	74
171608	205 294	2.35	1.49	0.98	1150	4	0.08	72	400	12	111	0.18	107	< 10	142

CERTIFICATION:



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WESTMIN RESOURCES LTD.
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Page # or :3-A
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 Invoice No. : 19633184
 P.O. Number : 6410
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171609	205 294	< 5	2	0.2	90	< 0.2	4.05	550	0.5	< 2	0.75	< 0.5	11	192	90
171610	205 294	< 5	8	0.2	10	< 0.2	3.42	4530	0.5	< 2	0.53	< 0.5	10	203	69
171611	205 294	< 5	4	0.2	10	< 0.2	2.84	3660	0.5	< 2	0.22	< 0.5	7	175	89
171612	205 294	< 5	1	0.2	40	< 0.2	3.47	320	0.5	< 2	0.55	< 0.5	8	197	75
171613	205 294	< 5	2	0.4	30	< 0.2	3.45	230	0.5	< 2	0.58	< 0.5	7	156	72
171614	205 294	< 5	2	0.4	20	< 0.2	3.83	500	0.5	4	0.50	< 0.5	11	163	70
171615	205 294	< 5	2	0.2	< 10	< 0.2	2.96	2090	0.5	< 2	0.37	< 0.5	8	144	61
171616	205 294	< 5	1	0.2	30	7.4	3.33	2900	0.5	2	0.38	< 0.5	11	169	74
171617	205 294	< 5	2	< 0.2	< 10	< 0.2	3.04	4450	0.5	6	0.26	< 0.5	10	169	74
171618	205 294	< 5	1	0.4	50	< 0.2	2.86	4550	0.5	< 2	0.31	< 0.5	8	177	64
171619	205 294	< 5	1	0.2	10	< 0.2	3.74	790	0.5	6	0.50	< 0.5	10	153	62
171620	205 294	< 5	2	0.2	10	< 0.2	2.69	4170	0.5	2	0.30	< 0.5	9	185	84
171621	205 294	< 5	1	0.4	10	< 0.2	4.05	370	0.5	< 2	0.56	< 0.5	9	172	71
171622	205 294	< 5	1	0.2	< 10	< 0.2	3.65	4320	0.5	2	0.38	< 0.5	10	191	72
171623	205 294	< 5	2	0.2	10	< 0.2	3.40	2510	0.5	< 2	0.43	< 0.5	9	150	67
171624	205 294	< 5	1	0.4	30	< 0.2	2.96	1530	0.5	< 2	0.30	< 0.5	8	179	67
171625	205 294	< 5	2	0.4	50	< 0.2	3.47	2980	0.5	6	0.28	< 0.5	11	200	67
171626	205 294	< 5	2	0.2	30	< 0.2	3.94	4620	0.5	< 2	0.45	< 0.5	14	204	71
171627	205 294	< 5	1	0.4	10	< 0.2	3.48	1740	0.5	2	0.33	< 0.5	9	185	80
171628	205 294	< 5	2	0.2	< 10	< 0.2	3.46	1340	0.5	< 2	0.36	< 0.5	10	222	65
171629	205 294	10	1	0.6	30	< 0.2	3.66	250	0.5	6	0.41	< 0.5	9	153	79
171630	205 294	< 5	2	0.2	< 10	< 0.2	3.06	430	0.5	2	0.44	< 0.5	7	212	73
171631	205 294	< 5	1	0.2	40	< 0.2	3.87	280	0.5	2	0.42	< 0.5	10	154	83
171632	205 294	< 5	1	< 0.2	20	< 0.2	3.45	890	0.5	2	0.38	< 0.5	9	178	82
171633	205 294	< 5	2	< 0.2	10	< 0.2	3.08	1700	0.5	8	0.30	< 0.5	8	163	79
171634	205 294	< 5	1	0.2	< 10	< 0.2	2.83	3480	0.5	8	0.44	< 0.5	9	225	79
171635	205 294	< 5	1	0.6	20	< 0.2	2.78	530	0.5	2	0.40	< 0.5	7	141	73
171636	205 294	< 5	2	0.2	30	< 0.2	3.17	3190	0.5	4	0.34	< 0.5	11	144	69
171637	205 294	< 5	1	0.2	10	< 0.2	3.38	2880	0.5	2	0.18	< 0.5	11	172	97
171638	205 294	< 5	1	0.2	10	< 0.2	4.02	3780	0.5	8	0.30	< 0.5	15	186	75
171639	205 294	< 5	2	0.2	20	< 0.2	3.66	2840	0.5	8	0.33	< 0.5	13	174	78
171640	205 294	< 5	1	< 0.2	10	< 0.2	3.83	1380	0.5	8	1.47	< 0.5	12	199	94
171641	205 294	< 5	1	< 0.2	< 10	< 0.2	2.91	630	0.5	6	3.44	< 0.5	9	169	48
171642	205 294	< 5	2	< 0.2	< 10	< 0.2	3.33	6160	0.5	2	0.30	< 0.5	12	185	58
171643	205 294	< 5	1	< 0.2	< 10	< 0.2	5.26	5160	1.0	2	0.19	< 0.5	16	166	135
171644	205 294	< 5	22	0.2	< 10	< 0.2	3.18	1890	0.5	< 2	0.28	< 0.5	9	212	53
171645	205 294	45	22	5.0	50	< 0.2	4.50	150	1.0	< 2	0.38	< 0.5	14	163	111
171646	205 294	< 5	2	0.6	20	< 0.2	2.23	870	0.5	< 2	0.22	< 0.5	4	177	76
171647	205 294	< 5	20	1.6	70	< 0.2	2.01	460	0.5	< 2	0.16	< 0.5	8	131	73
171648	205 294	< 5	8	0.6	40	< 0.2	1.49	590	0.5	< 2	0.14	< 0.5	4	192	52

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
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Page # : 3-B
Total F. : 4
Certificate Date: 28-SEP-96
Invoice No. : 19633184
P.O. Number : 6410
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171609	205 294	2.38	1.49	1.03	1305	3	0.08	79	550	16	148	0.19	116	< 10	164
171610	205 294	2.06	1.10	0.84	865	2	0.31	36	250	14	89	0.16	73	< 10	70
171611	205 294	1.75	0.95	0.72	715	4	0.04	29	180	16	56	0.13	71	< 10	62
171612	205 294	2.16	1.28	1.03	1385	3	0.16	33	200	10	125	0.14	95	< 10	78
171613	205 294	2.09	1.30	0.99	1290	3	0.37	30	190	10	157	0.14	102	< 10	68
171614	205 294	2.23	1.33	0.98	1675	1	0.43	34	240	12	133	0.14	97	< 10	68
171615	205 294	1.79	1.00	0.82	1125	1	0.28	28	200	12	114	0.11	71	< 10	54
171616	205 294	2.03	1.11	0.87	1175	3	0.29	39	410	16	120	0.13	74	< 10	72
171617	205 294	1.94	1.08	0.79	705	1	0.15	34	260	10	89	0.13	76	< 10	62
171618	205 294	1.76	0.99	0.72	960	1	0.16	32	230	8	97	0.12	70	< 10	60
171619	205 294	2.14	1.36	0.94	1310	1	0.30	30	270	8	149	0.13	90	< 10	64
171620	205 294	1.59	0.96	0.68	710	3	0.12	29	170	12	87	0.12	69	< 10	56
171621	205 294	2.42	1.61	0.97	1090	3	0.28	31	280	10	166	0.15	108	< 10	72
171622	205 294	2.08	1.21	0.92	1190	3	0.40	31	310	6	127	0.14	79	< 10	68
171623	205 294	1.93	1.00	0.91	1010	1	0.31	28	230	10	134	0.12	76	< 10	58
171624	205 294	1.80	1.01	0.81	580	1	0.09	33	190	8	75	0.11	73	< 10	58
171625	205 294	2.17	1.12	0.83	790	8	0.12	43	380	10	83	0.15	87	< 10	76
171626	205 294	2.38	1.03	0.97	1640	1	0.61	37	320	8	116	0.19	73	< 10	68
171627	205 294	2.10	1.12	0.94	845	2	0.11	39	260	8	83	0.14	87	< 10	68
171628	205 294	2.11	1.14	0.94	850	1	0.41	35	250	6	97	0.14	85	< 10	66
171629	205 294	2.22	1.40	0.97	695	3	0.34	32	220	10	105	0.12	104	< 10	68
171630	205 294	1.85	1.11	0.89	895	3	0.31	30	160	6	119	0.09	88	< 10	60
171631	205 294	2.32	1.41	1.03	915	3	0.41	35	240	12	130	0.13	109	< 10	74
171632	205 294	2.14	1.13	0.95	1105	< 1	0.41	36	210	12	125	0.11	89	< 10	68
171633	205 294	1.77	1.09	0.82	710	1	0.21	33	150	6	93	0.10	87	< 10	58
171634	205 294	1.64	1.02	0.78	1915	1	0.17	28	190	8	122	0.10	68	< 10	50
171635	205 294	1.64	0.94	0.86	1200	1	0.23	30	140	8	113	0.09	78	< 10	52
171636	205 294	1.80	1.26	0.87	2900	< 1	0.10	34	270	8	90	0.14	65	< 10	60
171637	205 294	2.03	1.11	0.85	940	1	0.46	39	240	8	51	0.16	72	< 10	68
171638	205 294	2.32	1.16	0.93	1365	5	0.82	38	330	14	66	0.19	77	< 10	72
171639	205 294	2.20	1.22	0.98	1090	2	0.08	41	330	10	47	0.14	83	< 10	76
171640	205 294	2.37	1.47	1.20	1920	3	0.20	41	510	6	134	0.14	90	< 10	84
171641	205 294	1.75	1.12	1.08	1670	3	0.25	29	650	8	299	0.11	60	< 10	64
171642	205 294	1.90	1.39	0.69	1855	1	0.34	31	230	4	208	0.15	65	< 10	54
171643	205 294	3.32	1.85	1.19	290	2	0.65	46	420	18	64	0.17	95	< 10	104
171644	205 294	2.05	1.11	0.72	1040	1	0.42	46	220	8	98	0.11	82	< 10	90
171645	205 294	3.28	1.89	0.75	560	6	0.11	135	420	10	127	0.16	154	< 10	322
171646	205 294	1.39	0.82	0.39	160	5	0.09	33	140	4	84	0.08	73	< 10	70
171647	205 294	1.14	0.77	0.31	155	6	0.04	113	310	6	70	0.07	86	< 10	178
171648	205 294	0.73	0.44	0.18	70	7	0.03	42	40	8	65	0.04	57	< 10	18

CERTIFICATION: 



Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171649	205 294	< 5	10	1.2	30	< 0.2	1.60	170	0.5	< 2	0.28	< 0.5	5	99	67
171650	205 294	< 5	14	0.6	70	< 0.2	1.38	1120	1.0	< 2	0.18	< 0.5	6	249	60
171651	205 294	< 5	12	1.0	250	0.4	3.06	900	2.5	2	0.09	< 0.5	8	119	61
171652	205 294	< 5	18	1.0	210	0.4	3.01	1790	2.5	< 2	0.18	< 0.5	12	213	70
171653	205 294	< 5	2	1.4	80	< 0.2	2.21	480	2.0	< 2	0.22	< 0.5	5	115	67
171654	205 294	< 5	1	0.6	30	< 0.2	8.34	8780	4.5	< 2	0.56	< 0.5	5	66	13
171655	205 294	60	26	3.0	30	< 0.2	2.93	40	1.5	< 2	2.51	< 0.5	11	102	66
171656	205 294	15	58	1.0	40	< 0.2	3.47	290	3.5	< 2	0.41	< 0.5	43	133	99
171657	205 294	5	24	0.2	60	< 0.2	3.59	1580	3.5	< 2	0.50	0.5	22	80	117
171658	205 294	10	24	4.0	660	0.4	2.23	50	3.0	< 2	5.53	4.5	6	125	54
171659	205 294	50	112	7.8	90	0.6	2.27	30	3.0	< 2	8.37	< 0.5	7	103	73
171660	205 294	< 5	14	0.8	50	< 0.2	3.35	250	3.5	< 2	2.94	< 0.5	10	144	68
171661	205 294	10	22	1.0	170	< 0.2	4.77	370	5.0	12	1.79	1.0	29	139	114
171662	205 294	5	24	1.8	300	< 0.2	3.82	100	4.0	< 2	0.55	4.5	12	200	87
171663	205 294	< 5	4	0.8	70	< 0.2	7.63	2840	6.5	2	1.20	0.5	8	124	40
171664	205 294	15	16	4.4	40	0.4	7.21	160	5.5	4	6.03	< 0.5	15	190	33

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

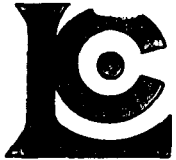
Page : 4-B
Total : 4
Certificate Date: 28-SEP-96
Invoice No. : 19633184
P.O. Number : 6410
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633184

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171649	205 294	1.16	0.49	0.25	140	5	0.02	62	40	4	102	0.04	62	< 10	54
171650	205 294	0.87	0.51	0.17	110	11	0.02	54	410	26	71	0.05	67	< 10	192
171651	205 294	1.06	1.39	0.34	75	3	0.08	36	120	20	31	0.11	98	< 10	698
171652	205 294	0.98	1.36	0.38	140	5	0.06	41	100	8	53	0.10	112	< 10	748
171653	205 294	1.55	0.90	0.29	260	18	0.05	40	490	< 2	55	0.07	100	< 10	176
171654	205 294	1.80	3.84	0.92	415	1	0.16	8	200	6	76	0.12	20	< 10	82
171655	205 294	5.31	1.39	0.86	1595	2	0.02	18	710	34	249	0.09	112	< 10	28
171656	205 294	1.99	1.69	0.39	515	3	0.07	53	430	32	57	0.14	185	< 10	24
171657	205 294	1.90	1.75	0.41	2750	2	0.06	32	450	68	78	0.15	195	< 10	132
171658	205 294	5.00	0.54	0.47	3190	4	0.01	30	1210	80	391	0.08	199	20	698
171659	205 294	7.20	0.94	0.52	3260	6	0.01	37	1820	280	234	0.08	232	10	22
171660	205 294	5.53	1.34	0.73	2650	3	0.04	38	2530	84	188	0.14	263	< 10	148
171661	205 294	4.74	2.12	0.71	2810	3	0.08	62	1090	172	145	0.17	334	10	516
171662	205 294	2.39	1.68	0.44	420	7	0.08	54	340	200	44	0.16	171	< 10	642
171663	205 294	2.02	3.59	1.04	495	11	0.16	22	110	34	86	0.13	58	< 10	216
171664	205 294	5.66	3.32	2.60	2640	9	0.28	46	470	40	339	0.33	168	20	170

CERTIFICATION: *Hart Buchler*



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WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
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INVOICE NUMBER

I 9 6 3 3 1 8 6

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

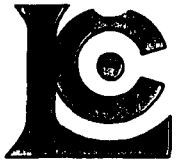
Billing: For analysis performed on
Certificate A9633186

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
32	205 - Geochem ring to approx 150 mesh	2.50		
	276 - 8-12 Kg crush and split	5.00		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	37.75	1208.00
Total Cost \$				1208.00
Client Discount (25%) \$				-302.00
Net Cost \$				906.00
(Reg# R100938885) GST \$				63.42
TOTAL PAYABLE (CDN) \$				969.42



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P# 1-A
 Tot QC 1
 Date: 28-SEP-96
 Invoice #: 19633186
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633186

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT	Std1	1	----	----	----	----	----	7.33	1140	0.5	2	2.04	0.5	19	95	176
G96-TOT	Std2	1	----	----	----	----	----	7.73	1240	0.5	< 2	2.15	< 0.5	20	104	190
CHEMEX MEAN	---	---	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	Std1	1	----	58	4.8	150	5.2	----	----	----	----	----	----	----	----	----
GEO-96	Std2	1	----	56	5.0	170	5.4	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
SL-96	Std2	1	720	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1	1	225	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----
105651	Dupl-01		< 5	4	0.6	180	< 0.2	3.45	2460	2.5	6	0.38	< 0.5	8	122	58
	Origl-01		< 5	4	0.8	200	< 0.2	3.21	1900	2.5	< 2	0.37	< 0.5	7	124	55

CERTIFICATION: Hart Buchler



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa 1-B
 Tot QC 1
 Date: 28-SEP-96
 Invoice #: 19633186
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633186

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1	1	4.59	1.73	0.99	990	10	0.97	25	600	-----	218	0.34	151	20	186
G96-TOT	Std2	1	4.87	1.85	1.04	1060	11	1.04	25	640	-----	232	0.36	161	20	196
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	134	-----	-----	-----	-----	-----
GEO-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	132	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
SI-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105651	Dupl	01	1.13	1.27	0.37	195	3	0.09	36	110	16	109	0.14	95	< 10	274
	Orig	01	1.10	1.22	0.36	190	3	0.09	33	110	14	108	0.13	91	< 10	258

CERTIFICATION:

[Handwritten Signature]



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A9633186

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633186

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

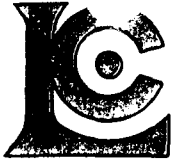
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 28-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	32	Geochem ring to approx 150 mesh
276	32	8-12 Kg crush and split
3202	32	Rock - save entire reject
285	32	ICP - HF digestion charge
287	32	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	32	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	32	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	32	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	32	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	32	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	32	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	32	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	32	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	32	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	32	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	32	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	32	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	32	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	32	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	32	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	32	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	32	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	32	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	32	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	32	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	32	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	32	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	32	Pb ppm: 24 element, rock & core	AAS	2	10000
582	32	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	32	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	32	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	32	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	32	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total: 1
 Certificate Date: 28-SEP-96
 Invoice No.: 19633186
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633186

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105651	205 276	< 5	4	0.8	200	< 0.2	3.21	1900	2.5	< 2	0.37	< 0.5	7	124	55
105652	205 276	< 5	2	1.4	20	< 0.2	1.40	220	4.5	< 2	1.31	< 0.5	1	107	47
105653	205 276	10	1	1.8	30	0.4	2.17	240	1.5	< 2	0.29	< 0.5	7	199	115
105654	205 276	< 5	2	0.8	10	< 0.2	3.02	920	0.5	< 2	0.64	< 0.5	7	114	74
105655	205 276	45	22	1.0	80	< 0.2	1.81	390	0.5	< 2	0.45	< 0.5	15	215	82
105656	205 276	< 5	2	1.4	20	< 0.2	2.12	120	< 0.5	< 2	0.22	< 0.5	1	90	36
105657	205 276	< 5	2	0.6	90	< 0.2	3.16	5190	2.5	6	0.15	< 0.5	7	118	52
105658	205 276	< 5	10	2.4	580	< 0.2	1.72	140	3.0	< 2	0.25	5.0	4	74	53
105659	205 276	< 5	16	5.0	40	< 0.2	0.90	70	4.0	8	22.2	0.5	5	41	29
105660	205 276	< 5	14	5.4	10	< 0.2	0.39	60	2.0	4	>25.0	< 0.5	3	34	22
105661	205 276	< 5	18	7.6	720	0.6	0.95	40	2.0	< 2	3.27	2.0	4	272	49
105662	205 276	< 5	2	1.2	20	< 0.2	8.06	2710	3.0	< 2	8.87	< 0.5	34	131	79
105663	205 276	< 5	4	0.8	< 10	< 0.2	7.66	2740	2.0	< 2	6.73	< 0.5	32	18	28
105664	205 276	< 5	16	0.6	< 10	< 0.2	8.03	5610	2.0	4	5.06	< 0.5	33	20	28
105665	205 276	< 5	2	2.8	50	< 0.2	7.68	360	3.0	8	1.53	0.5	6	37	14
105666	205 276	< 5	8	3.2	60	0.6	7.29	250	2.5	6	1.06	< 0.5	5	101	15
105678	205 276	< 5	8	1.4	40	< 0.2	5.63	1980	0.5	12	1.09	0.5	14	22	20
105679	205 276	< 5	2	1.2	< 10	< 0.2	7.15	2210	0.5	2	0.88	< 0.5	10	84	12
105680	205 276	< 5	1	6.4	< 10	< 0.2	6.93	1470	0.5	2	1.65	< 0.5	6	18	20
105681	205 276	< 5	2	7.6	< 10	< 0.2	8.65	2430	1.5	6	1.15	< 0.5	8	49	32
175039	205 276	< 5	2	1.0	30	< 0.2	3.63	1200	1.0	2	0.34	< 0.5	9	109	73
175040	205 276	10	2	0.8	< 10	< 0.2	2.32	350	1.5	6	0.53	< 0.5	6	126	71
175041	205 276	< 5	1	0.6	< 10	< 0.2	1.31	120	< 0.5	< 2	0.56	< 0.5	3	84	49
175042	205 276	< 5	2	0.4	30	< 0.2	1.70	9370	2.0	6	1.84	< 0.5	6	74	50
175043	205 276	20	1	1.2	30	< 0.2	2.07	120	1.5	< 2	2.18	< 0.5	6	194	73
175044	205 276	< 5	1	0.2	< 10	< 0.2	3.20	590	3.0	6	0.16	< 0.5	8	114	66
175045	205 276	< 5	1	0.2	590	< 0.2	1.42	900	1.5	2	0.11	< 0.5	5	26	60
175046	205 276	5	2	0.2	340	< 0.2	2.64	550	3.0	< 2	0.14	< 0.5	7	65	63
175047	205 276	< 5	2	0.6	20	< 0.2	4.39	140	14.0	< 2	0.64	< 0.5	5	90	39
175048	205 276	< 5	1	< 0.2	570	< 0.2	2.60	1010	4.5	8	0.14	< 0.5	7	52	66
175049	205 276	35	2	0.4	10	< 0.2	1.91	280	7.0	< 2	1.71	< 0.5	2	64	15
175050	205 276	< 5	1	0.2	560	< 0.2	3.00	1920	2.5	2	0.29	< 0.5	4	44	50

CERTIFICATION: *Hart Buchler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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Page : 1-B
 Total F : 1
 Certificate Date: 28-SEP-96
 Invoice No. : 19633186
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633186

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105651	205 276	1.10	1.22	0.36	190	3	0.09	33	110	14	108	0.13	91	< 10	258
105652	205 276	14.05	0.26	0.41	1115	16	0.04	10	1250	< 2	315	0.06	126	20	78
105653	205 276	1.91	0.81	0.30	130	3	0.05	72	770	4	126	0.09	98	< 10	88
105654	205 276	1.86	1.13	0.67	460	1	0.06	56	210	< 2	181	0.17	98	< 10	122
105655	205 276	1.80	0.38	0.29	250	12	0.03	173	200	4	99	0.09	75	< 10	340
105656	205 276	11.65	0.10	0.29	120	5	0.04	8	870	< 2	95	0.11	104	< 10	34
105657	205 276	1.35	1.06	0.31	90	9	0.08	31	130	18	36	0.13	114	< 10	364
105658	205 276	1.51	0.74	0.20	45	5	0.02	25	170	90	7	0.06	107	< 10	1980
105659	205 276	6.49	0.27	0.16	1585	19	0.01	8	2940	730	256	0.03	143	20	76
105660	205 276	5.12	0.10	0.11	1845	15	< 0.01	4	1580	940	291	0.01	99	10	12
105661	205 276	4.08	0.36	0.11	440	20	0.01	20	990	480	122	0.03	80	10	2070
105662	205 276	5.94	1.16	1.78	1475	4	0.21	30	2800	12	424	1.23	257	40	150
105663	205 276	4.77	1.17	1.46	1400	3	2.77	18	2570	12	418	1.33	240	30	46
105664	205 276	6.93	1.42	2.86	925	3	1.95	16	2580	< 2	358	1.34	263	30	138
105665	205 276	1.98	3.72	0.93	290	6	0.29	13	560	32	59	0.20	60	< 10	118
105666	205 276	2.32	3.47	0.86	255	4	0.25	8	640	42	49	0.18	39	< 10	104
105678	205 276	4.55	1.15	2.99	690	4	0.31	4	280	10	35	0.06	16	10	292
105679	205 276	5.44	1.51	3.92	745	5	0.23	4	320	< 2	30	0.09	18	10	182
105680	205 276	4.50	1.27	5.08	945	5	0.19	3	270	< 2	41	0.07	17	10	188
105681	205 276	4.00	2.16	5.35	700	4	0.26	4	280	12	37	0.11	23	10	228
175039	205 276	1.92	1.59	0.69	615	7	0.07	61	230	8	75	0.22	103	< 10	120
175040	205 276	4.70	0.12	0.33	2100	8	0.04	29	240	< 2	134	0.11	51	< 10	24
175041	205 276	15.80	0.03	0.29	630	11	< 0.01	13	180	< 2	91	0.08	102	< 10	40
175042	205 276	1.47	0.32	0.23	515	5	0.04	28	570	20	350	0.07	85	< 10	62
175043	205 276	6.43	0.69	0.66	2090	4	0.05	27	340	< 2	317	0.10	124	10	80
175044	205 276	1.36	1.37	0.37	95	3	0.13	61	220	24	121	0.12	156	< 10	760
175045	205 276	0.51	0.54	0.14	40	4	0.05	33	80	24	167	0.05	109	< 10	458
175046	205 276	1.00	1.13	0.30	60	5	0.10	50	110	30	233	0.10	123	< 10	442
175047	205 276	9.62	0.96	0.53	360	9	0.10	12	350	< 2	266	0.17	176	< 10	92
175048	205 276	0.98	0.96	0.31	60	21	0.12	48	110	44	193	0.10	139	< 10	918
175049	205 276	13.05	0.38	0.27	555	8	0.03	7	830	< 2	302	0.10	91	10	22
175050	205 276	0.98	1.11	0.36	125	5	0.12	20	120	20	265	0.11	111	< 10	440

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-A
 Tot QC r/g: 2
 Date: 30-SEP-96
 Invoice #: I9633188
 P.O. #: 6410
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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QC DATA OF CERTIFICATE A9633188

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	----	7.61	1220	0.5	< 2	2.11	0.5	19	95	183
G96-TOT	std2	1	----	----	----	----	----	8.30	1300	1.0	< 2	2.33	0.5	20	110	198
G96-TOT	std1	2	----	----	----	----	----	7.66	1240	0.5	< 2	2.06	0.5	19	98	187
G96-TOT	std2	2	----	----	----	----	----	7.61	1190	0.5	2	2.08	0.5	19	100	190
G96-TOT	std1	3	----	----	----	----	----	7.82	1200	0.5	6	2.10	0.5	19	104	191
CHEMEX MEAN	---	---	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	std1	1	----	60	4.8	140	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	60	5.0	140	7.2	----	----	----	----	----	----	----	----	----
GEO-96	std1	2	----	58	4.8	130	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std2	2	----	60	4.6	120	5.2	----	----	----	----	----	----	----	----	----
GEO-96	std1	3	----	58	4.6	140	5.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
JL-1	std1	2	90	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	92	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.29	20	< 0.5	2	0.02	< 0.5	< 1	< 1	< 1	
SIO2-T3	Blnk	2	----	----	----	----	0.30	20	< 0.5	< 2	0.04	< 0.5	< 1	< 1	< 1	
CHEMEX MEAN	---	---	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2	
SL-96	std2	1	720	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std1	3	760	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	765	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std1	1	240	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	std2	2	225	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	239	----	----	----	----	----	----	----	----	----	----	----	----	----
171665	Dup1-01		10	10	4.0	30	0.4	5.60	550	4.0	4	5.74	< 0.5	10	127	24
	Orig1-01		10	12	3.8	30	0.4	5.58	1150	4.0	< 2	5.80	< 0.5	10	133	27
171705	Dup2-01		< 5	2	< 0.2	80	< 0.2	2.45	1410	0.5	< 2	0.22	< 0.5	5	142	80
	Orig2-01		< 5	2	< 0.2	100	< 0.2	2.54	2000	0.5	2	0.23	< 0.5	6	211	82

CERTIFICATION:

Hart Buchler

* Sample 171784 deleted *



Chemex Labs Ltd.

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PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
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V7X 1C4

Page Number: 1-B
Total Pages: 3
Certificate Date: 30-SEP-96
Invoice No.: 19633188
P.O. Number: 6410
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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CERTIFICATE OF ANALYSIS A9633188

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171665	205 276	4.47	2.69	2.05	2210	3	0.16	24	330	14	268	0.28	114	20	68
171666	205 276	1.60	2.07	0.43	310	6	0.22	25	690	4	73	0.12	72	< 10	22
171667	205 276	3.06	3.00	0.72	600	4	0.69	23	980	22	78	0.13	47	< 10	24
171668	205 276	2.45	2.78	0.72	535	4	1.50	15	830	14	82	0.14	47	< 10	36
171669	205 276	3.78	2.87	0.76	235	72	0.26	56	300	130	47	0.11	73	< 10	4050
171670	205 276	2.47	4.01	1.32	485	3	0.21	8	180	< 2	93	0.17	23	10	70
171671	205 276	2.25	4.46	1.26	275	1	0.32	15	200	< 2	66	0.16	17	< 10	68
171672	205 276	2.31	3.73	1.26	375	< 1	0.33	9	160	< 2	81	0.12	12	< 10	310
171673	205 276	3.02	1.59	1.06	810	8	0.26	45	1260	64	127	0.16	126	10	786
171674	205 276	2.72	2.13	0.54	420	5	0.52	28	710	64	63	0.10	60	< 10	284
171675	205 276	1.70	1.51	0.59	350	3	0.07	50	210	10	104	0.12	72	< 10	124
171676	205 276	1.32	1.31	0.48	80	7	0.09	27	200	12	134	0.15	98	< 10	728
171677	205 276	1.46	1.12	0.47	125	9	0.06	41	310	40	121	0.13	90	< 10	466
171678	205 276	2.58	1.56	0.74	185	2	0.07	50	440	< 2	153	0.22	119	< 10	128
171679	205 276	2.25	1.42	0.65	225	4	0.06	56	240	< 2	177	0.20	124	< 10	114
171680	205 276	1.26	0.72	0.32	50	3	0.03	75	100	< 2	57	0.09	88	< 10	134
171681	205 276	1.29	0.70	0.31	90	3	0.03	57	590	< 2	141	0.10	76	< 10	148
171682	205 276	1.00	0.60	0.26	70	1	0.03	41	60	< 2	64	0.08	73	< 10	52
171683	205 276	1.31	0.79	0.37	170	3	0.13	63	130	< 2	158	0.12	72	< 10	72
171684	205 276	2.41	1.80	0.76	220	3	0.20	57	220	< 2	62	0.29	106	10	218
171685	205 276	2.34	1.77	0.80	265	2	0.26	69	210	< 2	66	0.26	103	< 10	204
171686	205 276	1.84	0.99	0.53	125	2	0.05	66	190	< 2	124	0.14	88	< 10	172
171687	205 276	2.36	1.04	0.52	180	1	0.05	32	360	< 2	200	0.14	80	< 10	46
171688	205 276	2.20	1.52	0.94	175	1	0.21	46	290	< 2	238	0.18	91	< 10	82
171689	205 276	2.16	1.28	0.92	130	1	0.17	37	270	< 2	208	0.15	81	< 10	76
171690	205 276	2.39	1.51	1.06	145	< 1	0.16	50	340	< 2	237	0.19	86	< 10	94
171691	205 276	1.91	1.01	0.70	105	2	0.05	29	210	< 2	111	0.14	68	< 10	54
171692	205 276	2.43	1.57	0.88	290	4	0.09	66	570	4	258	0.23	126	< 10	152
171693	205 276	2.64	1.69	0.93	150	10	0.08	89	460	4	165	0.25	139	< 10	140
171694	205 276	2.35	1.16	0.80	190	1	0.17	34	290	< 2	152	0.14	73	< 10	72
171695	205 276	2.12	1.34	0.78	260	3	0.10	71	730	< 2	326	0.15	114	< 10	144
171696	205 276	2.03	1.13	0.69	380	1	0.18	43	390	< 2	184	0.17	103	< 10	106
171697	205 276	2.04	0.98	0.73	175	1	0.22	30	210	< 2	378	0.14	57	< 10	60
171698	205 276	2.27	1.10	0.78	495	1	0.22	34	330	< 2	206	0.13	59	< 10	60
171699	205 276	2.70	1.45	0.88	255	5	0.08	82	430	< 2	266	0.21	136	< 10	174
171700	205 276	2.42	1.22	0.85	390	3	0.14	94	270	4	306	0.18	115	< 10	248
171701	205 276	1.68	1.07	0.56	185	1	0.14	46	130	< 2	127	0.14	88	< 10	90
171702	205 276	1.57	0.91	0.57	165	1	0.15	41	140	< 2	117	0.12	84	< 10	102
171703	205 276	1.49	1.02	0.43	115	< 1	0.06	23	110	< 2	152	0.13	67	< 10	36
171704	205 276	1.47	0.79	0.47	215	1	0.09	50	140	< 2	103	0.11	72	< 10	124

CERTIFICATION:

Hart Buchler

* Sample 171784 deleted *



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Revised

A9633188

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633188

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6410

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 28-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	101	Geochem ring to approx 150 mesh
276	101	8-12 Kg crush and split
3202	101	Rock - save entire reject
285	101	ICP - HF digestion charge
287	101	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	101	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	101	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	101	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	101	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	101	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	101	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	101	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	101	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	101	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	101	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	101	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	101	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	101	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	101	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	101	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	101	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	101	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	101	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	101	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	101	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	101	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	101	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	101	Pb ppm: 24 element, rock & core	AAS	2	10000
582	101	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	101	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	101	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	101	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	101	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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to: WESTMIN RESOURCES LTD.
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Page: 1-A
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CERTIFICATE OF ANALYSIS A9633188

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171665	205 276	10	12	3.8	30	0.4	5.58	1150	4.0	< 2	5.80	< 0.5	10	133	27
171666	205 276	< 5	1	1.8	50	< 0.2	4.90	770	3.0	10	1.15	< 0.5	5	181	28
171667	205 276	< 5	2	1.2	30	0.2	7.62	480	4.5	< 2	1.42	< 0.5	5	107	32
171668	205 276	< 5	1	0.4	30	0.2	7.35	540	5.0	2	1.38	< 0.5	5	132	63
171669	205 276	< 5	1	3.2	1140	0.8	6.55	260	5.0	2	0.55	8.5	7	219	251
171670	205 276	< 5	2	< 0.2	< 10	< 0.2	7.71	4310	5.5	2	1.92	< 0.5	5	47	11
171671	205 276	< 5	1	< 0.2	< 10	< 0.2	9.09	5030	6.0	4	1.00	< 0.5	7	84	12
171672	205 276	< 5	2	< 0.2	120	< 0.2	7.83	4750	5.0	6	1.49	0.5	6	78	13
171673	205 276	15	26	4.4	310	0.6	4.44	340	3.0	2	2.77	2.5	9	255	44
171674	205 276	5	14	3.0	90	0.4	5.37	460	4.0	< 2	1.04	0.5	6	145	44
171675	205 276	< 5	1	< 0.2	30	< 0.2	3.39	2270	2.5	< 2	1.10	< 0.5	7	165	62
171676	205 276	< 5	2	0.8	330	< 0.2	3.83	570	3.5	< 2	0.40	1.0	7	107	69
171677	205 276	< 5	1	1.2	200	0.4	2.72	550	1.5	< 2	0.28	< 0.5	7	182	64
171678	205 276	< 5	1	1.2	40	0.4	4.07	1020	1.0	< 2	0.46	< 0.5	9	196	57
171679	205 276	10	2	1.2	30	0.4	3.48	810	0.5	< 2	0.46	< 0.5	7	220	59
171680	205 276	5	1	1.2	50	0.4	2.12	570	0.5	< 2	0.11	< 0.5	5	190	85
171681	205 276	5	2	1.0	60	< 0.2	2.07	380	0.5	< 2	0.40	< 0.5	6	255	73
171682	205 276	< 5	2	0.8	40	< 0.2	1.81	420	0.5	< 2	0.13	< 0.5	4	204	64
171683	205 276	< 5	1	0.2	20	< 0.2	2.49	790	0.5	2	0.29	< 0.5	7	81	73
171684	205 276	< 5	1	0.4	90	< 0.2	5.09	>10000	1.5	< 2	0.21	< 0.5	11	103	159
171685	205 276	< 5	2	0.2	90	< 0.2	5.18	>10000	1.5	< 2	0.28	< 0.5	13	126	97
171686	205 276	< 5	1	0.4	60	< 0.2	2.83	770	1.0	< 2	0.24	< 0.5	8	139	149
171687	205 276	< 5	1	< 0.2	10	< 0.2	2.99	500	0.5	< 2	0.29	< 0.5	6	175	67
171688	205 276	< 5	2	< 0.2	10	< 0.2	4.07	8600	1.0	2	0.30	< 0.5	11	176	41
171689	205 276	< 5	1	< 0.2	< 10	< 0.2	3.46	7430	0.5	4	0.14	< 0.5	11	173	54
171690	205 276	< 5	2	< 0.2	10	< 0.2	4.07	8350	1.0	4	0.26	< 0.5	12	146	64
171691	205 276	< 5	1	0.6	10	< 0.2	2.88	2900	0.5	< 2	0.18	< 0.5	7	145	46
171692	205 276	< 5	1	< 0.2	40	< 0.2	4.24	770	1.0	< 2	0.51	< 0.5	12	234	74
171693	205 276	< 5	4	< 0.2	80	< 0.2	4.73	1320	1.5	6	0.36	< 0.5	18	229	81
171694	205 276	< 5	1	< 0.2	10	< 0.2	3.38	1340	0.5	2	0.27	< 0.5	7	210	58
171695	205 276	< 5	2	< 0.2	40	< 0.2	3.59	1240	1.0	< 2	0.61	< 0.5	8	191	67
171696	205 276	< 5	1	0.2	30	< 0.2	3.21	1060	0.5	< 2	0.40	< 0.5	7	136	69
171697	205 276	< 5	2	< 0.2	< 10	< 0.2	2.95	5000	0.5	2	0.19	< 0.5	8	158	41
171698	205 276	< 5	1	< 0.2	< 10	< 0.2	3.12	1430	0.5	< 2	0.29	< 0.5	7	96	40
171699	205 276	< 5	2	0.4	30	0.4	3.99	820	1.0	< 2	0.54	< 0.5	12	269	84
171700	205 276	< 5	4	< 0.2	40	< 0.2	3.63	810	1.0	2	0.63	< 0.5	11	213	57
171701	205 276	< 5	1	< 0.2	10	0.6	2.99	1850	0.5	< 2	0.34	< 0.5	7	124	165
171702	205 276	< 5	2	< 0.2	40	< 0.2	2.76	3770	0.5	< 2	0.36	< 0.5	6	121	76
171703	205 276	< 5	1	< 0.2	10	< 0.2	2.61	4090	0.5	< 2	0.21	< 0.5	5	151	37
171704	205 276	< 5	2	0.2	40	< 0.2	2.35	1650	0.5	< 2	0.25	< 0.5	6	178	63

CERTIFICATION:

Hart Buchler

* Sample 171784 deleted *



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

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 Total Pages: 3
 Certificate Date: 30-SEP-96
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 P.O. Number: 6410
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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CERTIFICATE OF ANALYSIS A9633188

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171705	205 276	< 5	2	< 0.2	100	< 0.2	2.54	2000	0.5	2	0.23	< 0.5	6	211	82
171706	205 276	< 5	1	< 0.2	< 10	< 0.2	2.03	2340	0.5	2	0.25	< 0.5	5	141	71
171707	205 276	< 5	2	< 0.2	10	< 0.2	2.28	930	0.5	< 2	0.31	< 0.5	6	186	87
171708	205 276	10	1	1.0	30	< 0.2	2.24	370	0.5	4	0.13	< 0.5	8	198	75
171709	205 276	5	4	0.8	20	< 0.2	1.70	440	< 0.5	< 2	0.13	< 0.5	5	219	60
171710	205 276	< 5	1	0.8	30	< 0.2	1.99	770	0.5	2	0.18	< 0.5	5	192	61
171711	205 276	< 5	2	1.6	40	< 0.2	2.44	400	0.5	< 2	0.14	< 0.5	7	244	79
171712	205 276	< 5	1	1.8	40	0.4	2.49	260	0.5	< 2	0.34	< 0.5	5	195	74
171713	205 276	260	2	2.2	30	0.4	2.27	380	< 0.5	2	1.44	< 0.5	6	259	57
171714	205 276	< 5	2	0.4	20	0.4	2.33	830	0.5	< 2	0.37	< 0.5	4	181	57
171715	205 276	< 5	1	< 0.2	30	0.4	2.40	470	0.5	2	0.50	< 0.5	6	218	61
171716	205 276	< 5	2	< 0.2	< 10	0.4	3.78	2470	1.5	< 2	0.44	< 0.5	7	195	51
171717	205 276	< 5	6	< 0.2	290	1.0	2.30	>10000	< 0.5	10	15.65	0.5	17	102	136
171718	205 276	< 5	2	< 0.2	10	0.2	3.32	2060	1.5	2	3.50	< 0.5	5	152	72
171719	205 276	< 5	1	< 0.2	20	< 0.2	3.37	2280	1.5	< 2	0.98	< 0.5	5	122	45
171720	205 276	< 5	6	< 0.2	10	0.2	3.47	550	1.5	< 2	4.43	< 0.5	4	121	48
171721	205 276	< 5	1	< 0.2	< 10	0.2	3.89	3170	1.5	< 2	0.67	< 0.5	6	140	49
171722	205 276	< 5	2	< 0.2	< 10	0.4	4.22	4180	1.5	2	0.31	< 0.5	8	159	67
171723	205 276	< 5	1	< 0.2	< 10	< 0.2	3.55	1140	1.5	2	0.20	< 0.5	5	162	62
171724	205 276	< 5	2	< 0.2	10	1.4	3.17	1920	1.5	8	0.50	< 0.5	5	93	43
171725	205 276	< 5	2	0.2	30	< 0.2	0.85	5290	< 0.5	6	>25.0	< 0.5	5	37	18
171726	205 276	< 5	1	1.4	30	< 0.2	2.74	3390	1.0	< 2	0.57	< 0.5	6	104	18
171727	205 276	< 5	1	1.2	50	< 0.2	2.54	350	2.0	2	0.66	< 0.5	6	123	64
171728	205 276	< 5	6	1.8	150	< 0.2	2.70	240	2.0	< 2	0.32	< 0.5	8	154	60
171729	205 276	< 5	2	1.0	90	0.2	2.62	280	2.5	2	0.37	< 0.5	6	192	51
171730	205 276	< 5	12	2.2	190	0.4	2.31	260	2.5	< 2	0.20	< 0.5	8	170	97
171731	205 276	< 5	10	1.6	210	0.2	2.34	670	2.0	4	0.14	< 0.5	11	230	105
171732	205 276	< 5	4	0.2	10	< 0.2	3.47	940	3.0	< 2	1.10	< 0.5	7	181	128
171733	205 276	< 5	2	0.2	10	< 0.2	3.82	980	3.5	< 2	0.82	< 0.5	9	211	88
171734	205 276	< 5	1	0.2	420	0.4	3.42	530	3.5	< 2	0.97	0.5	9	184	67
171735	205 276	< 5	2	0.2	10	0.4	2.10	250	< 0.5	4	16.35	< 0.5	9	152	49
171736	205 276	< 5	1	0.2	100	0.4	3.74	300	3.0	< 2	4.30	< 0.5	14	245	111
171737	205 276	< 5	1	0.2	30	0.6	4.09	110	4.0	< 2	1.21	< 0.5	11	234	75
171738	205 276	100	20	3.0	20	0.6	1.93	150	< 0.5	< 2	15.00	< 0.5	21	126	85
171739	205 276	15	24	1.0	330	< 0.2	3.84	330	3.5	< 2	0.50	2.5	33	171	101
171740	205 276	< 5	4	< 0.2	140	< 0.2	3.53	720	3.0	4	0.58	2.0	13	184	98
171741	205 276	< 5	4	< 0.2	< 10	< 0.2	5.26	990	5.0	< 2	0.62	< 0.5	18	160	74
171742	205 276	< 5	4	< 0.2	10	< 0.2	5.19	960	5.5	4	0.38	< 0.5	18	170	65
171743	205 276	< 5	1	< 0.2	130	< 0.2	4.40	780	4.5	< 2	0.46	2.5	13	171	61
171744	205 276	< 5	2	0.6	950	0.4	3.34	520	3.5	2	0.60	55.0	10	192	53

CERTIFICATION:

Hart Buchler

* Sample 171784 deleted *



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Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 12-B
Total Pages: 13
Certificate Date: 30-SEP-96
Invoice No.: 19633188
P.O. Number: 6410
Account: GPW

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CERTIFICATE OF ANALYSIS A9633188

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171705	205 276	1.49	0.87	0.48	160	4	0.14	43	120	< 2	108	0.10	73	< 10	142
171706	205 276	1.24	0.75	0.41	165	3	0.06	34	120	< 2	159	0.08	57	< 10	48
171707	205 276	1.37	0.72	0.45	120	3	0.34	47	140	< 2	222	0.08	68	< 10	74
171708	205 276	1.42	0.67	0.35	90	6	0.33	87	80	< 2	95	0.07	98	< 10	266
171709	205 276	1.00	0.50	0.23	75	3	0.19	45	60	< 2	157	0.06	72	< 10	52
171710	205 276	0.89	0.67	0.27	95	4	0.05	70	60	< 2	112	0.07	82	< 10	56
171711	205 276	1.09	1.05	0.32	190	5	0.05	107	70	< 2	77	0.09	104	< 10	126
171712	205 276	1.14	0.80	0.32	480	2	0.05	72	160	< 2	152	0.08	103	< 10	72
171713	205 276	2.68	0.57	0.54	1240	2	0.01	51	290	< 2	333	0.07	79	< 10	96
171714	205 276	1.04	0.86	0.28	305	1	0.06	34	430	< 2	197	0.07	87	< 10	54
171715	205 276	1.27	1.02	0.34	570	3	0.07	58	330	< 2	215	0.08	90	< 10	66
171716	205 276	3.14	1.45	0.52	550	5	0.36	27	170	< 2	126	0.17	106	< 10	32
171717	205 276	1.28	0.16	0.34	2560	6	0.03	24	430	40	3660	0.05	22	< 10	1285
171718	205 276	2.83	1.42	0.48	735	3	0.24	13	210	< 2	917	0.14	88	10	32
171719	205 276	1.84	1.50	0.43	300	2	0.28	18	130	< 2	520	0.15	84	< 10	84
171720	205 276	2.04	1.48	0.47	660	1	0.28	14	170	< 2	870	0.15	84	< 10	20
171721	205 276	2.45	1.70	0.50	385	1	0.26	16	120	< 2	185	0.17	100	< 10	24
171722	205 276	2.39	1.87	0.52	325	3	0.30	26	120	< 2	87	0.19	113	< 10	26
171723	205 276	1.62	1.57	0.42	135	1	0.18	16	90	< 2	136	0.14	89	< 10	20
171724	205 276	1.04	1.34	0.38	140	3	0.15	19	130	< 2	358	0.12	75	< 10	34
171725	205 276	1.31	0.19	0.23	2580	< 1	0.18	5	250	< 2	1885	0.03	14	10	30
171726	205 276	1.14	0.60	0.22	105	1	0.09	32	130	< 2	75	0.08	50	< 10	74
171727	205 276	1.27	0.98	0.31	135	2	0.07	47	80	14	70	0.10	98	< 10	160
171728	205 276	2.04	1.27	0.33	165	4	0.05	68	80	64	28	0.10	123	< 10	594
171729	205 276	1.60	1.20	0.32	190	1	0.04	48	80	74	25	0.09	115	< 10	450
171730	205 276	1.61	1.09	0.25	65	3	0.04	34	130	110	6	0.07	112	< 10	538
171731	205 276	1.24	1.10	0.27	40	1	0.05	42	190	92	7	0.09	121	< 10	518
171732	205 276	1.15	1.78	0.34	205	1	0.04	16	370	12	37	0.12	141	< 10	22
171733	205 276	2.11	1.98	0.41	435	3	0.08	36	510	82	30	0.18	163	< 10	60
171734	205 276	3.53	1.85	0.52	845	2	0.06	56	160	130	41	0.16	171	< 10	1930
171735	205 276	4.94	0.28	0.71	5000	3	1.31	24	280	52	647	0.09	52	20	52
171736	205 276	6.03	1.76	0.71	3080	5	0.29	71	610	106	167	0.16	184	10	420
171737	205 276	5.47	2.05	0.52	1390	6	0.12	39	460	70	45	0.14	224	10	74
171738	205 276	11.30	0.45	0.49	3960	6	0.57	58	260	200	642	0.05	120	50	32
171739	205 276	2.48	1.95	0.37	1995	2	0.08	46	290	100	21	0.13	185	< 10	1235
171740	205 276	1.46	1.75	0.35	1740	1	0.09	22	170	20	23	0.13	177	< 10	898
171741	205 276	2.09	2.65	0.57	630	3	0.12	55	230	30	28	0.21	164	< 10	34
171742	205 276	1.65	2.58	0.54	670	1	0.12	57	230	16	19	0.19	165	< 10	48
171743	205 276	2.08	2.28	0.49	545	1	0.09	40	180	172	22	0.17	125	< 10	634
171744	205 276	1.70	1.74	0.40	410	< 1	0.09	38	190	704	26	0.13	129	< 10	4820

CERTIFICATION:

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* Sample 171784 deleted *



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o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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V7X 1C4

QC P: 2-A
Tot QC: 2
Date: 30-SEP-96
Invoice #: 19633188
P.O. #: 6410
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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QC DATA OF CERTIFICATE A9633188

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171745	Dup 3-01 orig 3-01	< 5 < 5	2 2	1.0 1.0	2000 1940	< 0.2 < 0.2	2.03 2.06	330 270	2.0 2.0	< 2 2	2.51 2.61	75.0 77.5	7 8	152 152	55 56

CERTIFICATION:

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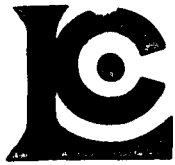
CERTIFICATE OF ANALYSIS A9633188

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171745	205 276	< 5	2	1.0	1940	< 0.2	2.06	270	2.0	< 2	2.61	77.5	8	152	56
171746	205 276	< 5	6	3.2	200	< 0.2	3.08	160	3.5	< 2	0.44	10.0	8	159	60
171747	205 276	20	40	8.2	720	0.8	4.09	120	4.5	< 2	0.99	17.5	8	237	51
171748	205 276	10	10	4.8	1230	0.6	5.14	220	4.5	< 2	4.11	20.5	10	125	38
171749	205 276	< 5	2	2.8	13200	4.8	5.79	170	4.5	< 2	2.80	229	24	280	88
171750	205 276	< 5	1	0.4	180	< 0.2	8.36	530	5.5	< 2	1.47	2.5	10	68	46
171751	205 276	< 5	1	0.2	100	< 0.2	8.33	1640	4.0	6	1.94	1.5	11	127	16
171752	205 276	< 5	4	0.2	60	< 0.2	7.25	2380	2.5	6	2.56	0.5	12	84	18
171753	205 276	< 5	10	0.4	30	< 0.2	6.87	970	1.5	< 2	10.15	< 0.5	17	177	26
171754	205 276	< 5	1	5.4	5160	4.2	7.09	250	3.0	6	2.46	60.5	5	67	453
171755	205 276	10	20	5.6	280	0.6	3.83	160	2.0	< 2	2.75	1.5	7	145	44
171756	205 276	< 5	16	3.2	1130	1.0	7.31	550	3.0	6	5.63	4.5	4	45	71
171757	205 276	5	56	11.0	1350	1.6	5.89	130	2.5	2	2.83	6.5	5	136	96
171758	205 276	5	40	6.4	780	1.4	6.10	160	3.0	2	1.42	5.5	7	185	41
171759	205 276	< 5	6	2.6	220	0.6	8.18	280	2.5	< 2	0.86	< 0.5	5	116	9
171760	205 276	< 5	64	20	1230	2.6	5.42	120	2.5	2	0.78	9.5	4	175	43
171761	205 276	< 5	6	1.4	140	< 0.2	7.91	470	1.5	< 2	0.98	< 0.5	6	68	5
171762	205 276	< 5	8	1.6	60	< 0.2	6.85	2160	< 0.5	< 2	0.47	< 0.5	5	65	4
171763	205 276	< 5	10	2.2	40	< 0.2	6.00	1270	1.5	< 2	0.17	< 0.5	5	55	4
171764	205 276	< 5	6	1.8	40	< 0.2	6.32	1310	1.5	2	0.35	< 0.5	6	56	3
171765	205 276	< 5	10	2.0	40	< 0.2	6.66	1300	2.0	< 2	0.23	< 0.5	5	69	3

CERTIFICATION:

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* Sample 171784 deleted *



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Total Pages : 3
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Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

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CERTIFICATE OF ANALYSIS

A9633188

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171745	205 276	2.40	1.04	0.31	770	1	0.02	26	170	116	102	0.08	107	< 10	7760
171746	205 276	2.62	1.54	0.37	165	3	0.08	39	240	48	13	0.13	186	< 10	1030
171747	205 276	3.50	1.97	0.42	135	13	0.10	60	2400	240	36	0.17	305	< 10	3180
171748	205 276	3.50	2.41	0.85	820	1	0.09	25	870	88	113	0.48	149	< 10	2900
171749	205 276	3.77	3.09	0.95	520	< 1	0.13	68	910	1800	114	0.34	130	< 10	>10000
171750	205 276	2.89	4.09	1.27	365	7	0.21	19	770	140	53	0.33	63	< 10	600
171751	205 276	2.97	4.12	1.40	360	1	0.20	28	880	80	68	0.44	62	< 10	320
171752	205 276	2.46	3.42	1.16	290	3	0.19	25	630	106	111	0.36	37	< 10	222
171753	205 276	4.61	2.03	1.46	990	< 1	1.13	46	1950	10	407	0.93	96	< 20	68
171754	205 276	1.90	3.68	0.98	410	5	0.18	7	380	2560	107	0.16	30	< 10	7800
171755	205 276	2.29	1.94	0.68	490	17	0.06	46	950	56	91	0.16	191	< 10	368
171756	205 276	1.74	3.51	2.53	785	7	0.20	8	340	164	219	0.16	63	< 10	634
171757	205 276	2.86	2.83	0.71	365	13	0.10	43	1140	170	118	0.17	220	< 10	792
171758	205 276	2.32	3.14	0.72	195	8	0.13	35	1120	94	58	0.21	162	< 10	678
171759	205 276	2.04	3.58	0.61	90	7	0.21	6	540	50	43	0.23	53	< 10	86
171760	205 276	3.97	2.27	0.37	85	25	0.15	65	1610	108	48	0.13	525	< 10	748
171761	205 276	1.99	3.18	0.19	110	3	1.63	10	550	36	86	0.17	22	< 10	60
171762	205 276	2.89	4.83	0.06	65	3	1.26	7	470	32	71	0.11	10	< 10	22
171763	205 276	3.63	4.31	0.03	40	3	0.69	7	450	44	41	0.12	11	< 10	10
171764	205 276	2.34	5.01	0.02	50	4	0.87	4	500	22	61	0.13	12	< 10	12
171765	205 276	2.27	4.65	0.03	65	2	0.93	6	480	22	56	0.12	12	< 10	38

CERTIFICATION:

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC Pa 2-B
Tot QC pg 2
Date: 30-SEP-96
Invoice #: 19633188
P.O. #: 6410
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* REVISED COPY **

QC DATA OF CERTIFICATE A9633188

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171745	Dup 3-01	2.35	1.02	0.30	760	1	0.01	26	160	120	98	0.07	104	< 10	7580
	Orig 3-01	2.40	1.04	0.31	770	1	0.02	26	170	116	102	0.08	107	< 10	7760

CERTIFICATION: Hart Bickle

* Sample 171784 deleted *



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa.
 Tot QC Fy. 1-B
 Date: 30-SEP-96
 Invoice #: 19633188
 P.O. #: 6410
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* REVISED COPY *

QC DATA OF CERTIFICATE A9633188

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1	1	4.77	1.89	1.03	1045	10	1.04	25	610	----	226	0.36	157	20	190
G96-TOT	Std2	1	5.00	2.10	1.13	1115	11	1.12	26	700	----	248	0.37	173	20	206
G96-TOT	Std1	2	4.82	1.83	1.04	1030	9	1.06	23	610	----	229	0.35	158	20	190
G96-TOT	Std2	2	4.87	1.85	1.04	1025	9	1.12	24	610	----	231	0.36	158	30	216
G96-TOT	Std1	3	4.95	1.89	1.06	1045	10	1.13	24	630	----	232	0.37	160	30	194
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	Std1	1	----	----	----	----	----	----	----	----	136	----	----	----	----	----
GEO-96	Std2	1	----	----	----	----	----	----	----	----	136	----	----	----	----	----
GEO-96	Std1	2	----	----	----	----	----	----	----	----	130	----	----	----	----	----
GEO-96	Std2	2	----	----	----	----	----	----	----	----	136	----	----	----	----	----
GEO-96	Std1	3	----	----	----	----	----	----	----	----	140	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
JL-1	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.05	0.06	0.01	< 5	< 1	< 0.01	< 1	150	----	133	0.01	2	< 10	< 2
SIO2-T3	Blnk	2	0.05	0.06	0.01	< 5	< 1	< 0.01	< 1	160	----	138	0.01	2	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	Std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
171665	Dup1	-01	4.47	2.70	2.07	2200	3	0.14	24	310	18	262	0.29	112	10	66
	Orig1	-01	4.47	2.69	2.05	2210	3	0.16	24	330	14	268	0.28	114	20	68
171705	Dup2	-01	1.44	0.80	0.46	150	4	0.14	40	100	< 2	103	0.11	67	< 10	134
	Orig2	-01	1.49	0.87	0.48	160	4	0.14	43	120	< 2	108	0.10	73	< 10	142

CERTIFICATION:

Hart Buchler

* Sample 171784 deleted *



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633192

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633192

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Geochem ring to approx 150 mesh
294	5	4-7 Kg crush and split
3202	5	Rock - save entire reject
285	5	ICP - HF digestion charge
287	5	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	5	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	5	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	5	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	5	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	5	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	5	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	5	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	5	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	5	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	5	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	5	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	5	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	5	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	5	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	5	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	5	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	5	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	5	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	5	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	5	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	5	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	5	Pb ppm: 24 element, rock & core	AAS	2	10000
582	5	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	5	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	5	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	5	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	5	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1-A
Total Pages: 1
Certificate Date: 30-SEP-96
Invoice No.: 19633192
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633192

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105712	205 294	25	12	10.0	120	1.0	6.18	250	2.0	8	0.19	1.0	13	72	70
105713	205 294	20	22	19.0	120	3.2	3.92	170	1.5	< 2	10.60	1.5	8	171	473
105714	205 294	750	1370	220	5370	>100.0	0.99	30	< 0.5	18	0.32	>500	19	219	8890
105715	205 294	40	46	16.5	680	3.0	5.36	90	2.0	2	3.45	9.5	6	259	163
105716	205 294	15	18	11.5	230	1.6	7.74	310	2.5	8	6.82	5.0	6	102	62

CERTIFICATION:

Hart Bechler



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1-B
 Total Pages: 1
 Certificate Date: 30-SEP-96
 Invoice No.: 19633192
 P.O. Number: 6406
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633192

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105712	205 294	3.11	2.58	0.75	25	3	0.21	6	300	40	18	0.12	21	< 10	238
105713	205 294	4.77	1.53	5.66	1065	11	0.11	29	980	26	294	0.06	331	10	170
105714	205 294	23.0	0.29	0.27	215	157	0.03	176	550	>10000	22	0.01	287	30	>10000
105715	205 294	2.61	1.93	1.76	610	13	0.21	39	890	48	101	0.14	204	< 10	1070
105716	205 294	2.64	3.52	2.38	605	11	0.27	19	260	76	209	0.14	341	10	544

CERTIFICATION: _____

Terry Tucker



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 3 1 9 2

BILLING INFORMATION

Date: 1-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9633192

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	181.25
				Total Cost \$ 181.25
				Client Discount (25%) \$ -45.31
				Net Cost \$ 135.94
				(Reg# R100938885) GST \$ 9.52
				TOTAL PAYABLE (CDN) \$ 145.46



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

J. WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 3 3 2 9 3**

BILLING INFORMATION

Date: 18-OCT-96
 Project: WOLVERINE
 P.O. No.: 6406
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9633293

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT	
4	255 - RUSH Geo ring to approx 150 mesh	3.75			
	295 - RUSH crush and split (0-3 Kg)	3.90			
	3202 - Rock - save entire reject	0.50			
	A-3 Cu,Pb,Zn assay group	28.12			
	ICP-T27 total digest ICP	20.00			
	991 - Au ppb RUSH	14.65			
	956 - Ag g/t RUSH	7.15			
	912 - Ba (XRF) ppm	8.75			
	444 - Spec Grv S.G.	8.00	94.82	379.28	
				Total Cost \$	379.28
				Client Discount (25%) \$	-94.82
				Net Cost \$	284.46
				(Reg# R100938885) GST \$	19.91
				TOTAL PAYABLE (CDN) \$	304.37



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633293

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633293

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	4	RUSH Geo ring to approx 150 mesh
295	4	RUSH crush and split (0-3 Kg)
3202	4	Rock - save entire reject
285	4	ICP - HF digestion charge
287	4	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	4	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	4	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	4	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	4	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	4	Ba ppm	XRF	10	50000
444	4	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	4	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	4	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	4	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	4	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	4	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	4	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	4	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	4	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	4	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	4	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	4	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	4	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	4	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	4	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	4	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	4	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	4	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	4	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	4	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	4	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	4	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	4	Pb ppm: 24 element, rock & core	AAS	2	10000
582	4	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	4	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	4	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	4	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	4	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number: 1-A
Total Pages: 1
Certificate Date: 17-OCT-96
Invoice No.: 19633293
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633293

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) ppm	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH	%	%	%					AAS									
105763	255	295	20	2.3	0.03	0.05	0.22	13750	2.79	44	10.0	920	2.0	6.29	290	3.0	< 2	3.01	17.0	4	93
105764	255	295	30	1.8	0.05	0.02	1.40	12260	2.35	68	13.0	9540	1.6	7.36	390	2.5	< 2	4.26	141.5	6	81
105915	255	295	5	1.3	< 0.01	0.01	0.03	22700	2.74	10	14.0	80	1.2	1.79	220	2.0	4	10.20	1.0	5	137
105916	255	295	5	0.8	< 0.01	0.01	< 0.01	47800	2.79	8	6.0	50	0.6	2.64	240	1.5	< 2	2.52	0.5	5	113

CERTIFICATION:

Hart Bickler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page # : 1-B
Total Pages : 1
Certificate Date: 17-OCT-96
Invoice No. : 19633293
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS A9633293

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105763	255	295	323	2.76	2.89	0.68	380	5	0.11	7	70	224	113	0.09	66	< 10	1960
105764	255	295	570	2.89	3.42	0.75	480	5	0.14	9	110	38	175	0.12	58	10	>10000
105915	255	295	33	1.73	0.25	0.44	2120	1	0.01	24	100	4	295	0.03	48	< 10	162
105916	255	295	19	2.46	0.08	0.28	515	1	< 0.01	16	120	4	60	0.04	46	< 10	36

CERTIFICATION:

Hart Bichler



Chemex Labs Ltd.

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212 Brooksbank Ave.. North Vancouver

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC P
Tot Q
Date: 29-OCT-96
Invoice #: 19633294
P.O. #: 6406

1-A

1

29-OCT-96

19633294

6406

CDN



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 3 2 9 4

BILLING INFORMATION

Date: 30-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9633294

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
7	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu, Pb, Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	863.24
Additional charges:				
2	265 - Special prep labor charge	35.00		70.00
2	3222 - 5 gal. pail and lid	7.00*		14.00

Total Cost \$ 947.24
Client Discount (25% of \$933.24) \$ -233.31

Net Cost \$ 713.93
(Reg# R100938885) GST \$ 49.98

TOTAL PAYABLE (CDN) \$ 763.91



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P: 1-B
 Tot QC: 1
 Date: 29-OCT-96
 Invoice #: 19633294
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9633294

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CD-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
PD-1 CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	std1 ---	1	9840 9440	19.85 19.35	0.9 0.8	2.80 2.70	1030 961	< 10 < 10	1.55 1.38	11990 11050	0.009 0.007	240 221	0.30 0.29	110 115	700 191

CERTIFICATION:

Handwritten signature



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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9633294

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633294

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 29-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	7	RUSH Assay ring approx 150 mesh
295	7	RUSH crush and split (0-3 Kg)
3202	7	Rock - save entire reject
290	7	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	7	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	7	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	7	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	7	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	7	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	7	Ba ppm	XRF	10	50000
444	7	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	7	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	7	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	7	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	7	Ag ppm: high grade 24 element	AAS	0.5	200
4031	7	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	7	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	7	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	7	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	7	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	7	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	7	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	7	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	7	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	7	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	7	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	7	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	7	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	7	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	7	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	7	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	7	Pb %: high grade 24 element	AAS	0.001	10.00
4047	7	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	7	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	7	V ppm: A22 ICP package	ICP-AES	10	50000
4050	7	Zn ppm: A22 ICP package	ICP-AES	20	100000



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 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page 1 of 1
 Total : 1
 Certificate Date: 29-OCT-96
 Invoice No. : 19633294
 P.O. Number : 6406
 Account : GP W

CERTIFICATE OF ANALYSIS A9633294

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa %	(XRFS) Spec Gr ppm	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	FA						S.G.				AAS									
105756	258	295	0.69	175	0.55	0.63	7.61	1160	4.42	0.28	0.10	0.004	186.0	0.30	100	< 10	< 20	3.30	750	40	80
105757	258	295	0.62	110	1.58	0.91	13.00	8240	4.55	0.16	0.01	0.003	120.0	0.25	< 100	< 10	< 20	0.70	1420	60	20
105758	258	295	0.41	165	2.08	0.70	18.50	5390	4.48	0.08	0.03	0.002	170.0	0.35	100	< 10	20	0.70	2370	150	110
105759	258	295	0.48	113	1.03	0.71	14.70	170	4.52	0.16	0.01	0.001	106.0	0.30	100	< 10	< 20	1.40	1550	80	100
105760	258	295	0.21	82	0.83	1.37	17.00	200	4.49	0.02	0.01	< 0.001	101.0	0.25	100	< 10	< 20	1.50	1720	50	110
105761	258	295	0.41	144	1.76	0.86	19.50	360	4.57	0.12	0.03	< 0.001	150.0	0.25	100	< 10	< 20	1.15	2220	70	140
105762	258	295	0.41	120	1.76	0.81	10.10	12250	3.88	0.02	0.01	< 0.001	123.0	3.95	< 100	< 10	< 20	4.25	1170	60	70

CERTIFICATION: *Hart Buchler*



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1 : 1-B
 Total Pages : 1
 Certificate Date: 29-OCT-96
 Invoice No. : 19633294
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633294

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105756	258	295	5670	>30.0	< 0.1	0.10	670	40	< 0.05	40	0.560	90	< 0.05	10	72200
105757	258	295	16190	>30.0	< 0.1	0.15	420	40	< 0.05	30	0.834	20	< 0.05	10	>100000
105758	258	295	22600	>30.0	< 0.1	0.05	370	40	< 0.05	40	0.694	10	< 0.05	30	>100000
105759	258	295	10680	>30.0	< 0.1	0.15	670	10	< 0.05	10	0.668	40	< 0.05	< 10	>100000
105760	258	295	8640	>30.0	< 0.1	0.05	570	40	< 0.05	10	1.350	40	< 0.05	< 10	>100000
105761	258	295	18710	>30.0	< 0.1	0.05	570	20	< 0.05	10	0.822	40	< 0.05	10	>100000
105762	258	295	18810	22.5	1.6	0.50	800	< 10	0.10	< 10	0.775	130	< 0.05	100	94000

CERTIFICATION:

Hart Bickler



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 3 3 2

BILLING INFORMATION

Date: 25-SEP-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9633332

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9633332

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633332

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page 1 of 1
Total 1
Certificate Date: 24-SEP-96
Invoice No.: 19633332
P.O. Number:
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9633332

SAMPLE	PREP CODE	Zn %										
105437	244 --	1.17										

CERTIFICATION:



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 3 8 4 2

BILLING INFORMATION

Date: 7-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9633842

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
14	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	507.50
Total Cost \$				507.50
Client Discount (25%) \$				<u>-126.88</u>
Net Cost \$				380.62
(Reg# R100938885) GST \$				<u>26.64</u>
TOTAL PAYABLE (CDN) \$				407.26



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 British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Pa: 1-A
 Tot QC: 1
 Date: 06-OCT-96
 Invoice #: 19633842
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633842

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	----	----	----	----	----	7.86 7.52	1200 1155	1.0 0.5	< 2 < 2	2.16 2.04	< 0.5 1.0	19 16	99 97	185 177
GEO-96 CHEMEX MEAN	std1	1	----	58 64	4.6 4.5	170 168	5.2 5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	std1	1	95 92	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: H. J. [Signature]



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 PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

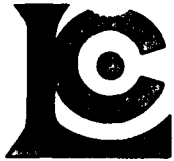
QC P: 1-B
 Tot QC 1
 Date: 06-OCT-96
 Invoice #: 19633842
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9633842

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 ---	1 ---	4.88 4.41	1.93 1.86	1.06 1.03	1070 927	11 9	1.04 1.03	25 20	620 648	----- -----	232 226	0.36 0.35	156 156	30 20	172 186
GEO-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	130 120	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: _____



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WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9633842

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9633842

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 6-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	14	Geochem ring to approx 150 mesh
294	14	4-7 Kg crush and split
3202	14	Rock - save entire reject
285	14	ICP - HF digestion charge
287	14	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	14	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	14	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	14	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	14	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	14	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	14	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	14	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	14	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	14	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	14	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	14	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	14	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	14	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	14	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	14	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	14	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	14	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	14	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	14	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	14	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	14	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	14	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	14	Pb ppm: 24 element, rock & core	AAS	2	10000
582	14	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	14	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	14	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	14	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	14	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1-A
Total: 1
Certificate Date: 06-OCT-96
Invoice No.: I9633842
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633842

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105809	205 294	< 5	1	1.8	20	< 0.2	3.40	400	3.5	< 2	0.26	< 0.5	4	141	109
105810	205 294	5	1	1.0	10	< 0.2	1.66	150	1.5	< 2	5.26	< 0.5	3	170	39
105811	205 294	< 5	2	0.6	< 10	< 0.2	1.98	410	2.0	< 2	3.16	< 0.5	1	69	15
105812	205 294	15	8	3.2	260	1.2	1.79	120	2.5	< 2	0.70	0.5	5	173	48
105813	205 294	15	14	4.6	20	< 0.2	0.61	150	3.5	6	>25.0	< 0.5	3	35	17
105814	205 294	15	18	3.4	70	< 0.2	0.32	170	1.5	2	>25.0	< 0.5	3	49	12
105815	205 294	< 5	2	1.0	140	< 0.2	2.42	280	5.0	< 2	3.84	0.5	3	172	41
105816	205 294	< 5	10	3.2	30	< 0.2	2.57	340	0.5	2	2.70	< 0.5	6	189	47
105832	205 294	80	88	35	280	2.0	2.84	170	3.5	< 2	1.93	0.5	4	178	110
105833	205 294	< 5	2	9.2	< 10	0.4	6.02	1720	0.5	32	0.68	< 0.5	15	75	28
105834	205 294	< 5	1	3.0	< 10	< 0.2	6.56	1360	0.5	20	0.47	< 0.5	15	31	13
105835	205 294	< 5	1	6.2	10	0.6	7.05	1100	0.5	14	0.58	< 0.5	16	53	37
105836	205 294	< 5	1	2.2	10	< 0.2	6.55	1230	0.5	10	0.77	< 0.5	14	45	24
105837	205 294	< 5	2	3.2	< 10	< 0.2	6.17	2280	1.5	8	0.27	< 0.5	10	86	18

CERTIFICATION:

Haut Bichler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 1
 Total 1
 Certificate Date: 06-OCT-96
 Invoice No.: 19633842
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9633842

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105809	205 294	3.50	0.73	0.36	110	3	0.13	14	800	< 2	73	0.17	99	< 10	< 2
105810	205 294	6.29	0.08	0.47	2710	13	0.01	12	2170	4	483	0.06	86	20	< 2
105811	205 294	7.79	0.04	0.50	1980	12	0.01	7	770	< 2	515	0.10	59	30	< 2
105812	205 294	2.49	0.77	0.24	310	10	0.01	29	300	174	32	0.06	106	< 10	960
105813	205 294	3.31	0.22	0.16	2220	12	0.01	8	1720	342	348	0.01	101	10	< 2
105814	205 294	2.25	0.07	0.13	2120	10	< 0.01	8	1940	144	539	< 0.01	72	10	318
105815	205 294	1.29	1.01	0.32	460	10	0.03	14	430	38	99	0.07	156	< 10	740
105816	205 294	1.33	1.14	0.28	300	1	0.11	44	140	6	234	0.06	81	< 10	22
105832	205 294	3.65	1.12	0.30	150	13	0.05	85	4830	40	50	0.07	239	< 10	212
105833	205 294	7.73	0.84	3.43	935	5	0.16	6	280	12	26	0.09	38	30	92
105834	205 294	8.77	0.72	4.16	1005	6	0.20	5	290	6	15	0.08	23	30	132
105835	205 294	9.13	0.67	4.90	1175	6	0.24	4	280	6	17	0.06	24	20	118
105836	205 294	7.75	0.85	4.38	1040	7	0.21	6	280	< 2	19	0.07	22	30	78
105837	205 294	4.75	1.81	2.61	465	3	0.18	5	300	2	14	0.08	16	10	26

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 0 4 3

BILLING INFORMATION

Date: 23-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634043

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	568.92

Total Cost \$	568.92
Client Discount (25%) \$	<u>-142.23</u>
Net Cost \$	426.69
(Reg# R100938885) GST \$	<u>29.87</u>
TOTAL PAYABLE (CDN) \$	456.56

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC 1-A
 Tot Qty: 1
 Date: 22 OCT-96
 Invoice #: 19634043
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE A9634043

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb	Ag g/t	Cu	Pb	ZnBa (XRFSpec Gr	As	Sb	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
		RUSH	RUSH	%	%	% ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
G96-TOT CHEMEX MEAN	Std1 1	---	---	---	---	---	---	---	---	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
										7.52	1155	0.5	< 2	2.04	1.0	16	97
GEO-90 CHEMEX MEAN	Std1 1	---	---	---	---	830	---	---	---	---	---	---	---	---	---	---	---
						865											
GEO-96 CHEMEX MEAN	Std1 1	---	---	---	---	---	58	5.2	150	5.4	---	---	---	---	---	---	---
							64	4.5	168	5.5							
JL-1 CHEMEX MEAN	Std1 1	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		92															
JWB-JV-1 CHEMEX MEAN	Std1 1	---	21.5	0.82	0.45	0.93	---	---	---	---	---	---	---	---	---	---	---
			22.2	0.83	0.45	0.95											
SILICA CHEMEX MEAN	Std1 1	---	---	---	---	---	2.60	---	---	---	---	---	---	---	---	---	---
							2.62										

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

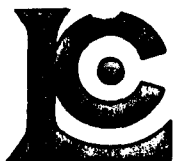
QC 1 B
Total g: 1
Date: 22-OCT-96
Invoice #: 19634043
P.O. #: 6406
GP W

QC DATA OF CERTIFICATE

A9634043

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (AAS)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std1 ---	1 ---	not/ss 177	not/ss 4.41	not/ss 1.86	not/ss 1.03	not/ss 927	not/ss 9	not/ss 1.03	not/ss 20	not/ss 648	not/ss 226	not/ss 0.35	not/ss 156	not/ss 20	not/ss 186
GEO-90 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GEO-96 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	170 120	----	----	----	----	----
JL-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: 19634043



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9634043

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634043

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

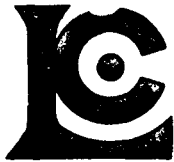
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 22-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	6	RUSH Geo ring to approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
285	6	ICP - HF digestion charge
287	6	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	6	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity s.g.	PICNOMETER	0.01	20.0
13	6	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	6	Sb ppm: HCL-RC103 digest, extrac	AAS-BKGD CORR	0.2	1000
20	6	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	6	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	6	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	6	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	6	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	6	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	6	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	6	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	6	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	6	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	6	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	6	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	6	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	6	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	6	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	6	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	6	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	6	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	6	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	6	Pb ppm: 24 element, rock & core	AAS	2	10000
582	6	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	6	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	6	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	6	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	6	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

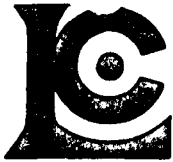
Page Number : 1-A
 Total Pages : 1
 Certificate Date: 22-OCT-96
 Invoice No. : 19634043
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634043

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS) ppm	Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH	RUSH	RUSH	%	%	%	ppm	ppm	ppm	AAS	ppm	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
105790	255	295	1760	125.0	0.07	0.23	1.55	11090	2.74	386	330	3190	>100.0	2.87	50	5.0	4	1.35	142.0	10	255
105795	255	295	510	96.2	0.27	0.51	17.50	10340	3.40	142	48	6290	90.0	4.50	170	0.5	30	10.40	>500	64	37
105796	255	295	40	2.0	0.01	< 0.01	< 0.01	7840	3.27	48	18.0	70	3.0	3.25	80	2.0	12	6.07	7.0	8	135
105797	255	295	25	0.9	< 0.01	0.01	0.07	8590	2.76	66	12.0	70	8.0	3.04	140	1.5	18	2.26	4.0	8	146
105798	255	295	15	0.8	0.01	0.01	0.03	12100	2.72	78	8.4	30	4.0	3.04	170	1.0	12	0.92	0.5	9	143
175503	255	295	5	< 0.3	< 0.01	< 0.01	0.01	8920	2.69	28	6.8	90	< 0.2	3.23	100	2.5	14	4.30	0.5	11	123

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

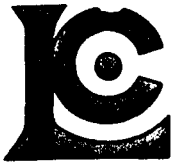
Page Number : 1-B
 Total Pages : 1
 Certificate Date: 22-OCT-96
 Invoice No. : 19634043
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634043

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105790	255	295	757	6.44	1.09	0.34	225	41	0.04	180	4220	2000	70	0.10	622	< 10	>10000
105795	255	295	3810	15.00	2.01	2.69	4030	< 1	0.13	8	370	4100	198	0.06	37	110	>10000
105796	255	295	98	2.74	1.45	0.56	1310	< 1	0.03	20	720	36	137	0.14	104	< 10	724
105797	255	295	47	2.92	1.30	1.03	1040	1	0.03	42	190	20	105	0.12	105	< 10	680
105798	255	295	124	1.90	1.23	0.50	325	< 1	0.06	60	210	16	50	0.12	140	< 10	318
175503	255	295	63	2.96	1.35	1.65	1960	1	0.04	39	740	32	115	0.13	118	< 10	166

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 0 4 4

BILLING INFORMATION

Date: 31-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634044

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	986.56
Additional charges:				
1	265 - Special prep labor charge	35.00		35.00
2	3222 - 5 gal. pail and lid	7.00*		14.00
				Total Cost \$ 1035.56
				Client Discount (25% of \$1021.56) \$ <u>-255.39</u>
				Net Cost \$ 780.17
				(Reg# R100938885) GST \$ <u>54.61</u>
				TOTAL PAYABLE (CDN) \$ 834.78

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Page #: 1-A
 Tot QC Pg: 1
 Date: 31-OCT-96
 Invoice #: 19634044
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

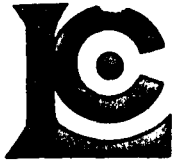
* PLEASE NOTE

QC DATA OF CERTIFICATE A9634044

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSE FA	Ag g/t RUSHERUSE FA	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	0.008 0.008	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
CD-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	0.67 0.67	3.53 3.58	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
JV-1 CHEMEX MEAN	Std1 ---	1 ---	0.48 0.62	178 175	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	0.83 0.83	0.46 0.45	0.94 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
SILICA CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	2.64 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	
SU-1A CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	4.0 4.3	5.75 5.72	300 285	< 10 < 10	< 20 < 20	3.35 3.50	< 10 < 10	380 364	240 266

CERTIFICATION: Hart Buchler

ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Form #: 1-B
 Tot QC Pg: 1
 Date: 31-OCT-96
 Invoice #: 19634044
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE

A9634044

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	std1 ---	1 ---	9610 9440	19.55 19.35	0.9 0.8	2.75 2.70	1040 961	< 10 < 10	1.50 1.38	11730 11050	0.010 0.007	230 221	0.30 0.29	110 115	740 191

CERTIFICATION: 19634044

* Re: ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9634044

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634044

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

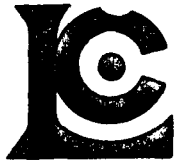
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 31-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	8	RUSH Assay ring approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
290	8	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	8	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	8	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	8	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	8	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	8	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	8	Ba ppm	XRF	10	50000
444	8	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	8	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	8	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	8	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	8	Ag ppm: high grade 24 element	AAS	0.5	200
4031	8	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	8	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	8	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	8	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	8	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	8	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	8	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	8	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	8	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	8	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	8	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	8	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	8	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	8	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	8	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	8	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	8	Pb %: high grade 24 element	AAS	0.001	10.00
4047	8	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	8	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	8	V ppm: A22 ICP package	ICP-AES	10	50000
4050	8	Zn ppm: A22 ICP package	ICP-AES	20	100000



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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
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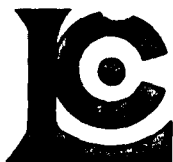
Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634044

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS) ppm	Spec Gr S.G.	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH FA								AAS									
105791	258	295	3.43	710	0.49	2.12	27.8	18250	4.08	0.10	0.16	0.004	>200	0.20	< 100	< 10	< 20	1.30	3260	30	60
105792	258	295	3.84	946	0.27	6.50	13.30	19110	4.54	1.01	0.14	0.002	>200	0.40	< 100	< 10	< 20	3.05	960	< 10	80
105793	258	295	5.28	>1000	0.62	8.69	12.80	2620	4.57	0.14	0.24	0.001	>200	0.85	100	< 10	< 20	2.10	830	< 10	80
105794	258	295	1.10	391	0.44	3.80	11.60	8880	4.32	0.48	0.02	0.001	>200	3.15	< 100	< 10	< 20	0.35	940	< 10	90
105799	258	295	0.55	151	0.81	0.47	23.7	1670	4.26	0.08	0.06	0.002	155.0	0.60	< 100	< 10	< 20	2.85	2870	60	90
105800	258	295	0.75	319	9.62	0.28	3.82	13400	3.26	< 0.01	< 0.01	< 0.001	>200	4.35	< 100	< 10	80	2.75	410	10	20
175501	258	295	0.55	144	3.53	0.46	11.90	10840	4.04	0.05	< 0.01	< 0.001	144.0	3.40	< 100	< 10	20	1.30	1260	60	70
175502	258	295	0.48	175	4.10	0.92	19.70	5200	4.05	0.06	< 0.01	0.001	196.0	1.80	< 100	< 10	20	0.60	2210	110	10

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists "Geochemists" Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
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 Certificate Date: 31-OCT-96
 Invoice No.: 19634044
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 Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634044

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105791	258	295	4980	18.25	< 0.1	< 0.05	590	50	0.05	70	2.10	60	< 0.05	< 10	>100000
105792	258	295	2760	28.3	< 0.1	0.05	1140	40	< 0.05	50	6.45	120	< 0.05	70	>100000
105793	258	295	6090	28.0	0.2	0.05	940	40	< 0.05	70	8.42	120	< 0.05	90	>100000
105794	258	295	4320	29.1	1.3	0.25	130	60	0.05	30	3.65	10	0.05	110	>100000
105799	258	295	8200	24.0	< 0.1	0.20	830	70	0.05	50	0.430	110	< 0.05	50	>100000
105800	258	295	>100000	21.4	1.8	2.55	1560	10	0.15	10	0.261	190	0.05	50	37300
175501	258	295	36400	25.4	1.3	0.85	770	10	0.15	20	0.430	60	< 0.05	50	>100000
175502	258	295	42500	27.4	0.5	0.35	510	10	0.05	30	0.876	30	< 0.05	50	>100000

CERTIFICATION: _____



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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

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BILLING INFORMATION

Date: 9-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634129

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
19	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	662.15
				Total Cost \$ 662.15
				Client Discount (25%) \$ <u>-165.54</u>
				Net Cost \$ 496.61
				(Reg# R100938885) GST \$ <u>34.76</u>
				TOTAL PAYABLE (CDN) \$ 531.37



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Co: WESTMIN RESOURCES LTD.
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QC: 1-A
 Tot G: 1
 Date: 08-OCT-96
 Invoice #: 19634129
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9634129

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	
G96-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	8.12 7.52	1210 1155	0.5 0.5	< 2 < 2	2.18 2.04	< 0.5 1.0	16 16	103 97	194 177	
GEO-96 CHEMEX MEAN	Std1	1	----	60 64	5.0 4.5	----	6.8 5.5	----	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1	1	90 92	----	----	----	----	----	----	----	----	----	----	----	----	----	----
105838	Dupl-01 Origl-01		< 5 < 5	4 4	0.2 0.2	----- 10	< 0.2 < 0.2	2.91 2.93	2310 2390	3.0 3.0	< 2 < 2	0.22 0.23	< 0.5 1.0	4 5	74 89	56 58	

CERTIFICATION: Hart Bickler



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 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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 V7X 1C4

QC1
 Tot Gr. g: 1
 Date: 08-OCT-96
 Invoice #: 19634129
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 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9634129

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 ---	1 ---	5.05 4.41	1.88 1.86	1.09 1.03	1005 927	11 9	1.09 1.03	24 20	560 648	----- -----	228 226	0.37 0.35	154 156	10 20	206 186
GEO-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	128 120	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
105838	Dupl Origl	-01 -01	1.14 1.15	1.14 1.20	0.35 0.36	125 135	5 6	0.11 0.12	24 27	160 180	2 2	69 72	0.11 0.11	76 80	< 10 < 10	52 54

CERTIFICATION:

Handwritten signature



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212 Brooksbank Ave., North Vancouver
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A9634129

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Project: WOLVERINE
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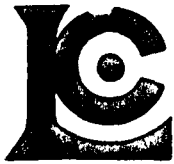
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 8-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	19	Geochem ring to approx 150 mesh
226	19	0-3 Kg crush and split
3202	19	Rock - save entire reject
285	19	ICP - HF digestion charge
287	19	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	19	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	19	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	19	Sb ppm: HCl-KClO3 digest, extrac	AAS-BRGD CORR	0.2	1000
20	19	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	19	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	19	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	19	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	19	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	19	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	19	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	19	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	19	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	19	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	19	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	19	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	19	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	19	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	19	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	19	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	19	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	19	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	19	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	19	Pb ppm: 24 element, rock & core	AAS	2	10000
582	19	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	19	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	19	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	19	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	19	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Project: WOLVERINE
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Page: 11-A
 Total Pages: 1
 Certificate Date: 08-OCT-96
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CERTIFICATE OF ANALYSIS A9634129

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105838	205 226	< 5	4	0.2	10	< 0.2	2.93	2390	3.0	< 2	0.23	1.0	5	89	58
105839	205 226	< 5	1	1.8	20	< 0.2	3.27	140	3.0	< 2	0.59	< 0.5	7	145	73
105840	205 226	15	6	1.8	540	0.2	2.18	80	2.5	< 2	0.21	1.0	2	109	35
105841	205 226	10	16	3.0	290	0.2	0.75	40	2.0	< 2	18.30	1.0	1	46	26
105842	205 226	< 5	2	1.0	10	< 0.2	2.46	3670	3.0	< 2	1.56	< 0.5	5	110	71
105843	205 226	< 5	1	0.8	10	0.4	2.56	70	6.5	< 2	2.56	< 0.5	3	106	44
105844	205 226	< 5	14	2.4	270	0.4	2.12	40	3.0	< 2	10.30	3.0	5	89	50
105845	205 226	25	2	3.6	740	0.4	1.55	30	4.5	< 2	11.15	8.0	3	57	57
105846	205 226	15	14	9.8	80	0.6	7.15	220	3.0	< 2	1.36	2.5	3	116	18
105847	205 226	70	154	27	2480	5.2	5.09	50	1.5	< 2	1.19	57.5	4	109	207
105848	205 226	15	18	4.4	210	1.0	7.40	110	1.5	< 2	2.15	1.5	5	53	22
105849	205 226	< 5	18	2.0	1680	0.4	6.01	150	< 0.5	< 2	2.22	78.5	8	46	654
105850	205 226	< 5	2	1.2	560	1.2	5.94	380	< 0.5	< 2	2.18	22.5	8	44	1670
105858	205 226	< 5	1	1.0	60	< 0.2	4.76	1010	< 0.5	< 2	1.14	< 0.5	5	44	147
105859	205 226	< 5	2	4.4	110	2.6	5.66	710	< 0.5	< 2	1.09	< 0.5	11	67	5470
105860	205 226	15	2	3.0	140	3.0	5.73	970	< 0.5	6	1.30	1.5	11	46	4900
105861	205 226	< 5	1	1.4	100	1.4	4.91	1050	< 0.5	< 2	2.03	0.5	8	68	963
105862	205 226	< 5	1	1.6	60	0.4	5.51	1290	0.5	< 2	0.83	< 0.5	9	46	1955
105863	205 226	< 5	2	0.8	< 10	< 0.2	6.45	320	< 0.5	< 2	1.23	< 0.5	14	42	79

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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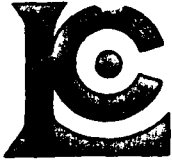
Page Number : 1-B
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 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634129

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105838	205 226	1.15	1.20	0.36	135	6	0.12	27	180	2	72	0.11	80	< 10	54
105839	205 226	6.25	0.75	0.79	670	9	0.13	41	330	< 2	117	0.17	103	< 10	150
105840	205 226	2.70	1.02	0.25	150	12	0.08	15	220	250	20	0.09	91	< 10	1660
105841	205 226	4.90	0.28	0.15	1435	16	0.02	11	960	430	269	0.02	83	20	1010
105842	205 226	3.33	1.17	0.50	1395	3	0.04	33	610	12	39	0.12	146	< 10	36
105843	205 226	10.55	0.54	0.67	2880	7	0.05	26	510	30	124	0.12	123	20	42
105844	205 226	6.86	0.56	0.50	2630	9	0.04	25	760	130	219	0.09	128	20	1215
105845	205 226	7.57	0.60	0.49	3340	6	0.03	14	850	272	295	0.07	118	30	2600
105846	205 226	1.94	3.44	0.94	255	6	0.24	10	370	60	49	0.17	55	< 10	228
105847	205 226	4.51	2.34	0.59	165	12	0.20	27	800	156	33	0.13	254	10	5880
105848	205 226	2.46	3.46	1.58	450	5	0.25	2	310	24	64	0.17	19	10	294
105849	205 226	6.32	1.82	3.91	700	4	0.26	4	240	24	61	0.11	16	10	9530
105850	205 226	5.53	1.60	4.17	890	4	0.24	2	240	132	58	0.09	16	10	2980
105858	205 226	4.86	0.83	3.28	645	5	0.15	1	160	8	32	0.07	11	10	158
105859	205 226	7.85	0.59	4.02	805	5	0.23	3	160	22	29	0.07	10	20	208
105860	205 226	8.28	0.71	3.29	1010	4	0.17	3	180	108	36	0.10	12	20	448
105861	205 226	6.16	0.80	2.71	1055	4	0.17	4	150	60	75	0.08	10	10	322
105862	205 226	6.61	1.01	2.97	775	4	0.16	3	190	24	25	0.10	10	10	268
105863	205 226	10.50	0.35	4.38	1065	6	0.26	3	190	10	32	0.12	12	20	206

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 1 7 4

BILLING INFORMATION

Date: 13-OCT-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

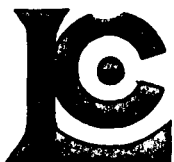
Billing: For analysis performed on
Certificate A9634174

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	278.80
Total Cost \$				278.80
Client Discount (25%) \$				-69.70
Net Cost \$				209.10
(Reg# R100938885) GST \$				14.64
TOTAL PAYABLE (CDN) \$				223.74



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC 1-A
Tot G: 1
Date: 11-OCT-96
Invoice #: I9634174
P.O. #: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9634174

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
Q96-TOT CHEMEX MEAN	std1	1	----	----	----	----	----	7.46 7.52	1150 1155	1.5 0.5	6 < 2	2.13 2.04	< 0.5 1.0	18 16	99 97	180 177
GEO-96 CHEMEX MEAN	std1	1	----	64 64	4.8 4.5	170 168	5.2 5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	std1	1	95 92	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

Hartwick



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC 1-B
 Tot. g. 1
 Date: 11-OCT-96
 Invoice #: 19634174
 P.O. #: GP W

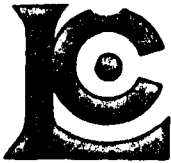
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9634174

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	4.74	1.85	1.02	1055	11	0.99	25	660	-----	223	0.36	155	20	198
	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96 CHEMEX MEAN	std1	1	-----	-----	-----	-----	-----	-----	-----	-----	140	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1 CHEMEX MEAN	std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

Hart Beck



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634174

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634174

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	8	Geochem ring to approx 150 mesh
226	8	0-3 Kg crush and split
3202	8	Rock - save entire reject
285	8	ICP - HF digestion charge
287	8	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	8	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	8	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	8	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	8	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	8	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	8	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	8	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	8	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	8	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	8	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	8	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	8	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	8	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	8	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	8	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	8	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	8	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	8	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	8	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	8	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	8	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	8	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	8	Pb ppm: 24 element, rock & core	AAS	2	10000
582	8	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	8	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	8	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	8	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	8	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

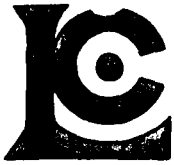
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Pa. er : 1-A
 Total. ges : 1
 Certificate Date: 11-OCT-96
 Invoice No. : 19634174
 P.O. Number :
 Account : GP W

CERTIFICATE OF ANALYSIS A9634174

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
106343	205 226	< 5	38	0.2	< 10	< 0.2	4.98	170	1.0	2	8.17	< 0.5	17	206	39
106344	205 226	< 5	14	0.2	< 10	< 0.2	2.87	1510	0.5	< 2	4.48	< 0.5	8	168	31
106345	205 226	< 5	4	0.2	10	< 0.2	3.67	110	1.5	4	4.27	0.5	10	253	75
106346	205 226	< 5	8	0.4	< 10	< 0.2	3.95	150	1.5	6	1.13	1.0	6	281	55
106359	205 226	20	68	0.2	< 10	< 0.2	1.98	2030	0.5	8	4.66	1.5	10	260	51
106360	205 226	< 5	2	0.2	< 10	< 0.2	5.59	290	2.0	6	3.08	1.5	12	133	69
106361	205 226	< 5	8	0.4	< 10	< 0.2	3.59	160	1.0	8	11.35	0.5	13	149	166
106362	205 226	< 5	18	0.4	< 10	< 0.2	1.51	860	0.5	6	8.41	2.5	8	159	60

CERTIFICATION: *Stuart Beckler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

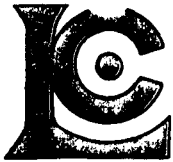
Page Number : 1-B
 Total Pages : 1
 Certificate Date: 11-OCT-96
 Invoice No. : 19634174
 P.O. Number :
 Account : GPW

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634174

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
106343	205 226	6.00	1.66	2.61	1500	20	0.11	50	1160	< 2	295	0.16	415	10	120
106344	205 226	1.64	1.39	0.77	635	11	0.07	55	390	< 2	129	0.10	364	< 10	34
106345	205 226	2.45	1.88	1.17	440	23	0.05	92	2120	20	107	0.11	806	< 10	122
106346	205 226	1.66	2.13	0.87	125	24	0.09	91	430	< 2	33	0.12	896	< 10	114
106359	205 226	0.64	1.14	0.30	585	16	0.01	64	2100	30	118	0.07	693	< 10	272
106360	205 226	1.84	3.15	0.82	480	14	0.11	54	670	54	71	0.20	327	< 10	450
106361	205 226	2.03	1.95	0.96	1505	12	0.07	80	1560	14	240	0.13	462	< 10	204
106362	205 226	0.86	0.84	0.37	985	5	0.01	49	2500	52	189	0.05	186	< 10	780

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 1 9 3

BILLING INFORMATION

Date: 30-SEP-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

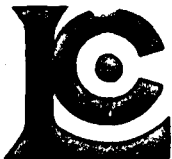
Billing: For analysis performed on
Certificate A9634193

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t	0.00 10.50	10.50	10.50
Total Cost \$				10.50
Client Discount (25%) \$				-2.63
Net Cost \$				7.87
(Reg# R100938885) GST \$				0.55
TOTAL PAYABLE (CDN) \$				8.42



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634193

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634193

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 27-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	1	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1
Total Pages: 1
Certificate Date: 27-SEP-96
Invoice No.: 19634193
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS

A9634193

SAMPLE	PREP CODE	Ag FA g/t										
105685	244 --	751										

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 3 3 8

BILLING INFORMATION

Date: 14-OCT-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634338

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
13	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	453.05
Total Cost \$				453.05
Client Discount (25%) \$				-113.26
Net Cost \$				339.79
(Reg# R100938885) GST \$				23.79
TOTAL PAYABLE (CDN) \$				363.58



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC #: 1-A
 Total Gr: 1
 Date: 13-OCT-96
 Invoice #: 19634338
 P.O. #: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9634338

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	7.77 7.52	1160 1155	1.5 0.5	< 2 < 2	2.08 2.04	< 0.5 1.0	17 16	93 97	178 177
GEO-96 CHEMEX MEAN	Std1	1	----	58 64	4.8 4.5	180 168	7.2 5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1	1	90 92	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION: Hart Beckler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC 1-B
 Total Pages: 1
 Date: 13-OCT-96
 Invoice #: 19634338
 P.O. #: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9634338

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	4.88 4.41	1.73 1.86	1.05 1.03	1010 927	12 9	0.94 1.03	21 20	560 648	----- -----	225 226	0.36 0.35	150 156	10 20	198 186
GEO-96 CHEMEX MEAN	Std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	136 120	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	Std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: *Hank Buchler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634338

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634338

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

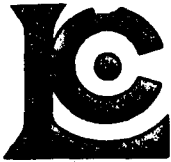
Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	13	Geochem ring to approx 150 mesh
226	13	0-3 Kg crush and split
3202	13	Rock - save entire reject
285	13	ICP - HF digestion charge
287	13	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	13	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	13	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	13	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	13	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	13	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	13	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	13	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	13	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	13	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	13	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	13	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	13	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	13	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	13	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	13	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	13	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	13	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	13	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	13	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	13	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	13	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	13	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	13	Pb ppm: 24 element, rock & core	AAS	2	10000
582	13	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	13	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	13	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	13	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	13	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

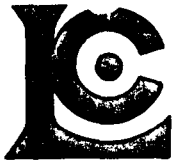
Page Number: 1-A
 Total Pages: 1
 Certificate Date: 13-OCT-96
 Invoice No.: I9634338
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634338

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105887	205 226	20	24	22	320	3.0	7.90	300	3.5	< 2	5.87	0.5	10	91	774
105888	205 226	< 5	18	1.2	< 10	< 0.2	9.57	2640	3.0	< 2	8.09	0.5	8	8	149
105889	205 226	< 5	2	1.6	60	< 0.2	9.24	2330	2.5	< 2	5.41	0.5	7	23	87
105890	205 226	< 5	2	6.2	1100	< 0.2	9.21	5780	2.5	< 2	7.72	20.0	4	38	52
105891	205 226	< 5	8	3.4	740	< 0.2	9.34	2360	2.5	< 2	9.57	18.5	5	16	133
105892	205 226	< 5	22	12.0	740	< 0.2	4.72	210	2.0	< 2	12.70	12.5	4	152	29
105893	205 226	< 5	34	14.0	900	0.2	7.00	260	3.0	< 2	2.59	8.5	4	51	22
105894	205 226	< 5	22	19.5	1800	0.6	6.53	230	3.0	< 2	2.70	19.5	3	135	36
105895	205 226	< 5	26	14.5	700	0.4	8.08	460	3.0	6	3.85	3.0	5	57	13
105896	205 226	< 5	48	58	6500	2.6	3.54	130	1.5	< 2	5.73	44.5	1	235	103
105897	205 226	< 5	104	52	4900	5.2	5.28	160	2.5	< 2	2.99	43.5	3	105	103
105898	205 226	< 5	28	12.5	1900	1.0	7.27	440	3.5	< 2	0.63	13.0	3	184	10
105899	205 226	< 5	14	7.8	1200	0.4	7.27	530	3.5	< 2	0.56	< 0.5	4	55	6

CERTIFICATION: Hart Beckler



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Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-1-B
 Total Pages: 1
 Certificate Date: 13-OCT-96
 Invoice No.: 19634338
 P.O. Number:
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634338

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105887	205 226	3.80	3.51	4.48	675	22	0.57	49	290	244	230	0.14	738	< 10	218
105888	205 226	4.57	4.39	5.71	715	4	0.36	11	380	30	375	0.18	55	10	152
105889	205 226	3.09	4.40	2.65	445	5	0.26	7	490	36	218	0.19	32	< 10	284
105890	205 226	2.14	4.36	1.76	600	7	0.26	6	380	18	215	0.22	26	< 10	2690
105891	205 226	3.99	4.48	3.83	695	13	0.31	12	320	184	273	0.17	60	10	2250
105892	205 226	2.41	2.23	2.20	945	11	0.07	33	190	244	325	0.09	439	< 10	1240
105893	205 226	1.29	3.05	0.68	215	9	0.15	25	160	38	73	0.11	274	< 10	586
105894	205 226	1.25	2.84	0.85	395	10	0.13	20	160	164	76	0.10	469	< 10	1290
105895	205 226	1.34	3.26	0.81	375	4	0.16	17	260	112	98	0.12	60	< 10	254
105896	205 226	1.30	1.68	0.47	610	11	0.05	26	440	2100	154	0.06	252	< 10	4120
105897	205 226	2.06	2.43	0.62	360	15	0.08	41	780	1300	91	0.10	482	< 10	3210
105898	205 226	1.74	3.34	0.93	100	8	0.14	16	170	74	24	0.14	255	< 10	824
105899	205 226	1.38	3.51	1.15	90	2	0.13	4	140	18	21	0.11	34	< 10	72

CERTIFICATION: *Hart Buchler*



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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 4 2 7

BILLING INFORMATION

Date: 25-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634427

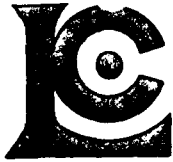
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
11	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	1043.02

Total Cost \$	1043.02
Client Discount (25%) \$	-260.76
Net Cost \$	782.26
(Reg# R100938885) GST \$	54.76
TOTAL PAYABLE (CDN) \$	837.02



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F 1-A
 Tot Qc 1
 Date: 25-OCT-96
 Invoice #: 19634427
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9634427

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRF) Spec Gr % ppm S.G.	As ppm	Sb ppm	Hg Ag ppm ppb AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
G96-TOT CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	7.57 7.52	1150 1155	1.0 0.5	< 2 < 2	2.04 2.04	< 0.5 1.0	18 16	97 97
GEO-96 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	60 64	4.8 4.5	170 168	5.0 5.5	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	std1 ---	1 ---	100 92	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----- -----	21.8 22.2	0.83 0.83	0.46 0.45	0.94 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	2.64 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION:

Hank Buehler



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

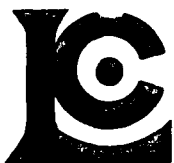
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F 1-B
 Tot QC pg. 1
 Date: 25-OCT-96
 Invoice #: 19634427
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE **A9634427**

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
G96-TOT CHEMEX MEAN	Std1 ---	1 ---	179 177	4.77 4.41	1.75 1.86	1.04 1.03	1015 927	10 9	0.98 1.03	21 20	590 648	----- -----	223 226	0.36 0.35	152 156	10 20	192 186
GEO-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- 126 120	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: _____



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 PROJECT: WOLVERINE
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 VANCOUVER, BC
 V7X 1C4

A9634427

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634427

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

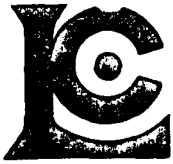
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 25-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	11	RUSH Geo ring to approx 150 mesh
295	11	RUSH crush and split (0-3 Kg)
3202	11	Rock - save entire reject
285	11	ICP - HF digestion charge
287	11	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	11	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	11	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	11	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	11	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	11	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	11	Ba ppm	XRF	10	50000
444	11	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	11	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	11	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	11	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	11	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	11	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	11	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	11	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	11	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	11	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	11	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	11	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	11	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	11	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	11	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	11	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	11	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	11	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	11	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	11	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	11	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	11	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	11	Pb ppm: 24 element, rock & core	AAS	2	10000
582	11	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	11	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	11	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	11	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	11	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

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o: WESTMIN RESOURCES LTD.
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 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total Pages: 1
 Certificate Date: 25-OCT-96
 Invoice No.: 19634427
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634427

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu	Pb	ZnBa (XRF) Spec Gr	As	Sb	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm			
	RUSH	RUSH	%	%	%	ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)				
105924	255	295	110	14.9	0.02	0.05	0.36	13950	3.35	132	41	1540	14.4	3.59	60	4.0	< 2	1.14	27.0	9	151
105930	255	295	135	5.7	0.01	0.01	0.10	5710	2.79	140	26	570	50.0	2.24	40	4.0	< 2	1.15	6.0	3	301
105931	255	295	4730	>350	0.72	0.10	3.44	2600	2.78	500	>1000	6040	>100.0	1.65	60	1.5	2	8.31	355	11	175
105932	255	295	290	30.0	0.01	0.05	0.48	7550	2.72	500	115	1570	29.6	2.38	50	5.0	< 2	3.72	46.0	6	392
105933	255	295	6640	>350	0.05	4.25	12.60	810	4.22	>10000	>1000	34800	>100.0	0.53	10	< 0.5	< 2	0.19	>500	< 1	96
105934	255	295	2440	343	0.71	0.74	6.62	9170	3.00	1000	330	15700	>100.0	2.32	30	4.0	70	0.16	>500	24	342
105939	255	295	140	39.1	0.13	0.06	0.50	6380	2.75	152	100	1800	37.6	5.76	640	3.5	6	4.43	42.5	8	181
105940	255	295	180	57.2	0.11	0.06	0.30	5590	2.76	116	130	890	54.0	5.12	370	3.0	2	8.77	25.0	12	128
105941	255	295	30	3.1	0.01	0.01	0.02	4910	2.93	14	13.5	100	2.4	4.40	440	2.5	< 2	14.10	0.5	13	109
105942	255	295	20	4.9	0.10	0.02	0.05	4010	2.83	26	12.0	100	4.2	8.19	370	2.0	< 2	5.27	< 0.5	12	38
105943	255	295	< 5	1.6	0.01	< 0.01	0.04	3170	2.82	2	1.8	20	1.2	9.90	2820	1.5	< 2	1.76	< 0.5	14	22

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1 of 1 B
Total Pages: 1
Certificate Date: 25 OCT-96
Invoice No.: 19634427
P.O. Number: 6406
Account: GP W

CERTIFICATE OF ANALYSIS

A9634427

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
105924	255	295	276	2.94	1.48	0.38	160	20	0.07	83	1630	280	82	0.14	439	< 10	3430
105930	255	295	196	4.66	0.94	0.29	100	45	0.02	78	4340	94	44	0.07	301	< 10	952
105931	255	295	7630	4.63	0.47	1.68	2050	1	< 0.01	25	180	880	141	0.03	153	40	>10000
105932	255	295	237	4.26	0.99	0.33	415	66	0.01	191	8130	400	109	0.09	1195	< 10	4810
105933	255	295	651	>25.0	0.09	0.11	515	45	< 0.01	68	40	>10000	8	< 0.01	156	90	>10000
105934	255	295	7640	7.57	0.96	0.30	95	100	0.04	466	330	6500	12	0.06	1545	40	>10000
105939	255	295	1420	3.92	2.21	2.08	500	22	0.15	51	1180	550	112	0.12	431	< 10	5740
105940	255	295	1245	4.32	2.07	3.05	920	19	0.13	43	920	480	181	0.08	509	10	3400
105941	255	295	152	6.95	1.92	3.47	860	3	0.13	25	1050	60	359	0.08	342	10	126
105942	255	295	1270	6.83	1.92	6.16	705	7	0.30	11	510	280	176	0.14	70	10	498
105943	255	295	241	8.61	1.59	7.13	540	7	0.35	4	470	76	60	0.15	36	10	440

CERTIFICATION: Hunter Bouchard



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 4 2 8

BILLING INFORMATION

Date: 31-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9634428

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

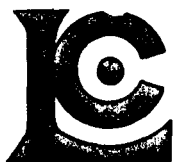
# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
9	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1109.88

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	1151.88
	Client Discount (25% of \$1144.88) \$	<u>-286.22</u>
	Net Cost \$	865.66
	(Reg# R100938885) GST \$	<u>60.60</u>
	TOTAL PAYABLE (CDN) \$	926.26

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC # : 1-A
 Tot QC Pg: 1
 Date: 31-OCT-96
 Invoice #: 19634428
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9634428

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHRUSE FA	Ag g/t RUSHRUSE FA	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.	As %	Sb %	Hg Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	0.008 0.008	-----	-----	-----	-----	-----	-----	-----	-----
CD-1 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	0.68 0.67	3.51 3.58	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	-----	0.82 0.83	0.46 0.45	0.93 0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
NEW-95 CHEMEX MEAN	Std1 1	2.57 2.58	< 3 < 3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	2.60 2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	5.0 4.3	5.70 5.72	300 285	< 10 < 10	< 20 < 20	3.30 3.50	< 10 < 10	380 364	300 266

CERTIFICATION: Hart Beckler

VALUES MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC Page ... 1-B
Tot QC Pg: 1
Date: 31-OCT-96
Invoice #: 19634428
P.O. #: 6406
GP W

* PLEASE NOTE

QC DATA OF CERTIFICATE

A9634428

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
NEW-95 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	9390 9440	19.25 19.35	0.8 0.8	2.70 2.70	1040 961	< 10 < 10	1.50 1.38	11680 11050	0.009 0.007	230 221	0.30 0.29	110 115	300 191

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634428

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634428

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	9	RUSH Assay ring approx 150 mesh
295	9	RUSH crush and split (0-3 Kg)
3202	9	Rock - save entire reject
290	9	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	9	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	9	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	9	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	9	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	9	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	9	Ba ppm	XRF	10	50000
444	9	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	9	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	9	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	9	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	9	Ag ppm: high grade 24 element	AAS	0.5	200
4031	9	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	9	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	9	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	9	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	9	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	9	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	9	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	9	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	9	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	9	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	9	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	9	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	9	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	9	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	9	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	9	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	9	Pb %: high grade 24 element	AAS	0.001	10.00
4047	9	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	9	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	9	V ppm: A22 ICP package	ICP-AES	10	50000
4050	9	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 31-OCT-96
 Invoice No. : 19634428
 P.O. Number : 6406
 Account : GPW

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634428

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr ppm	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH FA						S.G.				AAS									
105925	258	295	1.37	412	1.57	3.49	21.5	730	4.44	0.08	0.06	0.004	>200	0.40	300	< 10	120	0.50	1800	220	30
105926	258	295	0.14	8	0.06	0.03	0.21	7630	2.26	0.02	0.01	< 0.001	12.0	2.50	400	< 10	< 20	2.90	10	< 10	220
105927	258	295	1.58	189	1.35	1.06	9.30	220	4.37	0.31	0.01	0.004	195.0	0.40	100	< 10	< 20	2.80	760	60	60
105928	258	295	1.30	280	0.75	1.56	18.80	130	4.29	0.22	0.04	0.002	>200	0.30	< 100	< 10	< 20	3.40	1870	50	90
105929	258	295	3.29	972	1.80	3.58	14.40	570	4.32	0.22	0.12	0.001	>200	0.35	200	< 10	600	2.90	1160	200	60
105935	258	295	2.81	781	0.76	2.56	26.0	820	3.97	0.09	0.10	0.004	>200	0.40	200	< 10	< 20	0.30	2950	70	180
105936	258	295	1.65	588	0.63	1.82	13.20	85	4.46	0.20	0.08	0.002	>200	0.40	< 100	< 10	< 20	0.20	1380	20	40
105937	258	295	1.85	509	0.77	2.40	15.00	70	4.51	0.19	0.09	0.003	>200	0.35	< 100	< 10	< 20	0.20	1540	40	100
105938	258	295	3.09	892	6.43	0.55	2.43	6640	3.41	0.01	0.07	< 0.001	>200	4.55	100	< 10	80	3.75	290	40	60

CERTIFICATION: *Hansi Beckler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

TO: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total Pages : 1
Certificate Date: 31-OCT-96
Invoice No. : 19634428
P.O. Number : 6406
Account : GP W

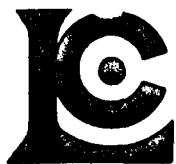
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634428

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
105925	258	295	16440	25.8	< 0.1	0.05	330	60	< 0.05	90	3.58	10	< 0.05	80	>100000
105926	258	295	670	5.95	1.0	0.25	300	30	0.05	150	0.046	120	0.10	470	2740
105927	258	295	14260	>30.0	< 0.1	0.05	640	30	< 0.05	40	1.070	110	< 0.05	20	88000
105928	258	295	8090	27.2	< 0.1	0.05	870	50	< 0.05	70	1.590	30	< 0.05	10	>100000
105929	258	295	18200	28.0	< 0.1	< 0.05	620	60	< 0.05	120	3.58	100	< 0.05	70	>100000
105935	258	295	8180	20.3	< 0.1	0.05	210	70	< 0.05	140	2.64	< 10	< 0.05	170	>100000
105936	258	295	6510	>30.0	< 0.1	0.10	240	90	< 0.05	90	1.850	< 10	< 0.05	40	>100000
105937	258	295	8240	>30.0	< 0.1	0.05	390	100	< 0.05	110	2.43	< 10	< 0.05	30	>100000
105938	258	295	66800	19.90	1.6	2.60	1510	10	0.15	170	0.538	140	< 0.05	190	23600

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 4 9 3

BILLING INFORMATION

Date: 3-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

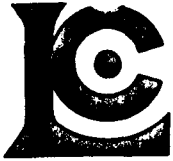
Billing: For analysis performed on
Certificate A9634493

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	16.00
Total Cost \$				16.00
Client Discount (25%) \$				<u>4.00</u>
Net Cost \$				12.00
(Reg# R100938885) GST \$				<u>0.84</u>
TOTAL PAYABLE (CDN) \$				12.84



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634493

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634493

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O.#: 6406

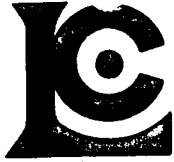
Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	2	Zn %; Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page er : 1
Total Pages : 1
Certificate Date: 02-OCT-96
Invoice No. : 19634493
P.O. Number : 6406
Account : GP W

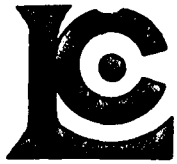
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9634493

SAMPLE	PREP CODE	Zn %									
175132	244 --	1.55									
175134	244 --	3.30									

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 6 7 3

BILLING INFORMATION

Date: 3-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634673

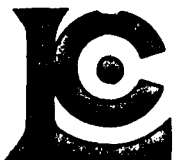
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex	0.00		
	384 - Ag FA g/t	10.50		
	312 - Pb %	8.00		
	316 - Zn %	8.00	26.50	26.50
				Total Cost \$ 26.50
				Client Discount (25%) \$ -6.63
				Net Cost \$ 19.87
				(Reg# R100938885) GST \$ 1.39
				TOTAL PAYABLE (CDN) \$ 21.26

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634673

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634673

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	1	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000
312	1	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 02-OCT-96
Invoice No. : 19634673
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9634673

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Zn %							
105714	244 --	226	1.36	9.51							

CERTIFICATION:

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 6 7 4

BILLING INFORMATION

Date: 3-OCT-96
Project: WOLVERINE
P.O. No.: 6410
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634674

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

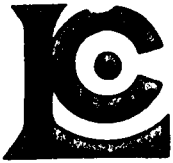
# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42

WU 96-51

441.2 - 441.9

(.2 m)

@ A12472 - 12455 certified
2-3 cm sph bands.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634674

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634674

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O.#: 6410

Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1
Total pages: 1
Certificate Date: 02-OCT-96
Invoice No.: 19634674
P.O. Number: 6410
Account: GPW

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9634674

SAMPLE	PREP CODE		Zn %									
171749	244	--	3.55									

CERTIFICATION:

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 6 7 5

BILLING INFORMATION

Date: 3-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634675

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 389 - Ag con g/t	0.00 45.00	45.00	45.00
Total Cost \$				45.00
Client Discount (25%) \$				-11.25
Net Cost \$				33.75
(Reg# R100938885) GST \$				2.36
TOTAL PAYABLE (CDN) \$				36.11



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634675

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634675

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O.#: 6406

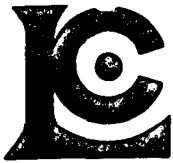
Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
389	1	Ag g/t: Concentrate	FA-AAS/GRAV	0.3	1000.0



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Pages: 1
Total Pages: 1
Certificate Date: 02-OCT-96
Invoice No.: 19634675
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634675

SAMPLE	PREP CODE	Ag con g/t																		
105793	244 --	1602.1																		

CERTIFICATION: Hart Buchler



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 7 3 0

BILLING INFORMATION

Date: 31-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634730

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu, Pb, Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	616.60

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

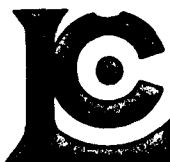
Total Cost \$ 658.60
Client Discount (25% of \$651.60) \$ -162.90

Net Cost \$ 495.70
(Reg# R100938885) GST \$ 34.70

TOTAL PAYABLE (CDN) \$ 530.40

COPY

* Not Subject to Discount



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634730

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634730

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

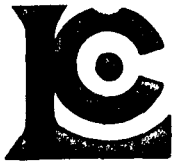
Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	5	RUSH Assay ring approx 150 mesh
295	5	RUSH crush and split (0-3 Kg)
3202	5	Rock - save entire reject
290	5	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	5	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	5	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	5	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	5	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	5	Ba ppm	XRF	10	50000
444	5	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	5	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	5	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	5	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	5	Ag ppm: high grade 24 element	AAS	0.5	200
4031	5	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	5	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	5	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	5	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	5	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	5	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	5	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	5	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	5	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	5	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	5	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	5	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	5	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	5	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	5	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	5	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	5	Pb %: high grade 24 element	AAS	0.001	10.00
4047	5	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	5	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	5	V ppm: A22 ICP package	ICP-AES	10	50000
4050	5	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total: 1
 Certificate Date: 31-OCT-96
 Invoice No.: 19634730
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9634730

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr S.G.	As %	Sb %	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)		
			RUSH	RUSH	FA						AAS										
172280	258	295	1.41	302	0.23	2.33	5.45	1960	3.39	0.21	0.04	0.005	>200	2.20	500	< 10	< 20	1.70	350	< 10	210
172282	258	295	2.61	661	0.13	5.46	16.90	2540	3.69	0.04	0.18	0.015	>200	2.05	900	< 10	< 20	3.35	1320	10	120
175534	258	295	7.17	797	0.87	1.25	21.8	1000	4.20	0.49	0.10	0.010	>200	0.45	400	< 10	< 20	0.80	2210	50	120
175535	258	295	4.56	439	0.40	1.00	41.3	795	4.12	0.48	0.09	0.012	>200	0.25	300	< 10	< 20	1.45	4650	90	40
175536	258	295	4.53	791	0.30	2.78	33.6	975	4.05	0.49	0.12	0.008	>200	0.35	300	< 10	< 20	3.10	3510	50	80

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1 of 1
Total pages: 1
Certificate Date: 31-OCT-96
Invoice No.: 19634730
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

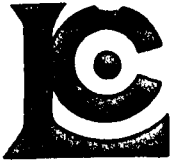
CERTIFICATE OF ANALYSIS

A9634730

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
172280	258	295	2280	16.40	1.0	0.25	250	40	0.05	80	2.17	90	0.05	340	52000
172282	258	295	1270	16.20	0.8	0.25	740	10	0.05	60	5.42	150	< 0.05	140	>100000
175534	258	295	8320	24.5	< 0.1	0.30	880	40	< 0.05	120	1.120	40	< 0.05	210	>100000
175535	258	295	4220	15.80	< 0.1	0.20	570	40	< 0.05	50	0.924	20	< 0.05	40	>100000
175536	258	295	3080	16.70	< 0.1	0.05	800	20	< 0.05	40	2.67	30	< 0.05	30	>100000

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 7 6 2

BILLING INFORMATION

Date: 25-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN:TERRY TUCKER-VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634762

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
12	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	1137.84

Total Cost \$	1137.84
Client Discount (25%) \$	<u>-284.46</u>
Net Cost \$	853.38
(Reg# R100938885) GST \$	<u>59.74</u>
TOTAL PAYABLE (CDN) \$	913.12



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC 1-A
 Tot. g: 1
 Date: 25 OCT-96
 Invoice #: 19634762
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9634762

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRFS) % ppm	Spec Gr S.G.	As ppm	Sb ppm	Hg Ag ppm ppb AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	7.46	1120	1.5	< 2	2.09	1.5	21	95
		-----	-----	-----	-----	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97
GEO-96 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	1235	-----	4.4	-----	5.2	-----	-----	-----	-----	-----	-----	-----	-----
		-----	-----	-----	-----	-----	-----	4.5	-----	5.5	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	22.0	0.83	0.45	0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		-----	22.2	0.83	0.45	0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		-----	-----	-----	-----	-----	2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96 CHEMEX MEAN	Std1 1	310	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: *Hart Buchler*

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC 1-B
 Total g: 1
 Date: 25-OCT-96
 Invoice #: 19634762
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE

A9634762

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
G96-TOT CHEMEX MEAN	Std1 ---	1 ---	186 177	4.74 4.41	1.72 1.86	1.02 1.03	1020 927	10 9	0.98 1.03	21 20	610 648	----- -----	223 226	0.35 0.35	154 156	< 10 20	194 186
GEO-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	134 120	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
WC-96 CHEMEX MEAN	Std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: 10/25/96

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9634762

Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

CERTIFICATE

A9634762

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	12	RUSH Geo ring to approx 150 mesh
295	12	RUSH crush and split (0-3 Kg)
3202	12	Rock - save entire reject
285	12	ICP - HF digestion charge
287	12	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	12	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	12	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	12	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	12	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	12	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	12	Ba ppm	XRF	10	50000
444	12	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	12	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	12	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	12	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	12	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	12	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	12	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	12	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	12	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	12	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	12	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	12	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	12	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	12	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	12	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	12	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	12	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	12	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	12	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	12	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	12	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	12	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	12	Pb ppm: 24 element, rock & core	AAS	2	10000
582	12	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	12	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	12	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	12	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	12	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total pages: 1
 Certificate Date: 25-OCT-96
 Invoice No.: 19634762
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634762

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr S.G.	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH																	
172281	255	295	100	13.4	0.07	0.03	0.17	5590	2.51	76	25	1300	13.4	5.39	200	3.5	2	1.59	12.5	5	201
175528	255	295	< 5	1.2	< 0.01	< 0.01	0.03	5170	2.73	16	6.8	6800	0.8	3.25	140	1.5	< 2	1.94	1.5	8	333
175529	255	295	15	1.7	< 0.01	< 0.01	0.03	21000	2.71	30	13.5	9700	1.4	3.88	100	2.0	2	2.61	1.5	12	194
175530	255	295	20	1.5	< 0.01	< 0.01	0.04	15630	2.72	34	12.5	170	0.8	2.82	140	3.0	4	1.59	1.0	6	168
175531	255	295	40	1.9	< 0.01	< 0.01	0.03	7110	2.72	44	19.0	160	1.4	2.61	100	4.0	< 2	0.15	< 0.5	5	187
175532	255	295	120	3.2	0.01	0.01	0.04	8530	2.81	78	22	320	3.2	2.56	110	4.0	< 2	0.13	1.5	5	237
175533	255	295	620	14.3	0.02	0.02	0.15	9250	2.81	340	58	900	13.0	2.93	120	6.5	4	0.87	13.5	7	304
175537	255	295	185	12.3	0.05	0.03	0.57	10320	2.67	980	34	1730	13.2	4.86	90	2.5	< 2	2.29	45.0	20	149
175538	255	295	25	0.8	0.01	< 0.01	0.02	5970	2.69	42	24	120	0.8	2.74	80	2.5	2	0.10	1.5	10	205
175539	255	295	< 5	5.1	0.10	< 0.01	0.02	7240	2.75	6	28	70	4.8	2.45	490	1.5	< 2	0.04	0.5	6	182
175540	255	295	< 5	1.0	0.01	0.01	0.02	6860	2.72	8	42	40	1.0	3.12	360	1.0	< 2	0.02	< 0.5	12	102
175541	255	295	< 5	0.5	< 0.01	< 0.01	0.01	10590	3.03	4	36	20	0.6	4.21	6600	1.5	2	0.04	< 0.5	14	186

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-B
 Total Pages: 1
 Certificate Date: 25 OCT-96
 Invoice No.: 19634762
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN:TERRY TUCKER-VANCOUVER OFFICE

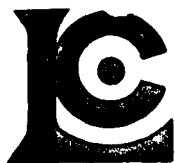
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634762

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
172281	255	295	723	2.09	2.63	0.59	245	13	0.14	36	660	256	101	0.15	290	< 10	1400
175528	255	295	70	2.41	0.95	1.04	1470	3	0.04	27	250	4	155	0.11	104	< 10	172
175529	255	295	50	2.65	1.10	1.25	1165	6	0.07	52	780	< 2	225	0.12	160	< 10	178
175530	255	295	41	2.29	0.68	0.81	600	3	0.04	36	1610	< 2	145	0.08	96	< 10	308
175531	255	295	61	2.43	0.85	0.26	50	4	0.06	50	490	< 2	15	0.08	116	< 10	174
175532	255	295	93	3.36	0.81	0.26	55	4	0.06	66	350	20	18	0.08	146	< 10	296
175533	255	295	199	5.26	1.14	0.30	50	46	0.07	176	4060	134	44	0.11	1000	< 10	1315
175537	255	295	581	3.72	2.04	1.14	950	8	0.07	23	1050	264	88	0.17	137	< 10	5260
175538	255	295	80	2.95	1.17	0.32	135	3	0.06	44	130	18	14	0.12	121	< 10	152
175539	255	295	818	1.02	0.97	0.28	75	< 1	0.05	32	80	< 2	11	0.10	92	< 10	104
175540	255	295	98	1.18	0.94	0.24	35	1	0.06	45	200	66	17	0.14	134	< 10	116
175541	255	295	92	1.21	1.72	0.42	200	1	0.07	42	160	2	21	0.19	165	< 10	92

CERTIFICATION: _____

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 9 4 5

BILLING INFORMATION

Date: 28-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634945

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
6	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	568.92

Total Cost \$	568.92
Client Discount (25%) \$	-142.23
Net Cost \$	426.69
(Reg# R100938885) GST \$	-29.87
TOTAL PAYABLE (CDN) \$	456.56



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC 1-A
 Tot QC Pg: 1
 Date: 25-OCT-96
 Invoice #: 19634945
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9634945

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb RUSH	Ag g/t RUSH	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As ppm	Sb ppm	Hg Ag ppm ppb AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	7.75	1160	1.5	< 2	2.13	0.5	20	102
		-----	-----	-----	-----	-----	-----	-----	-----	7.52	1155	0.5	< 2	2.04	1.0	16	97
GEO-96 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	1235	60	4.6	150	5.6	-----	-----	-----	-----	-----	-----	-----
		-----	-----	-----	-----	-----	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----
JL-1 CHEMEX MEAN	Std1 1	95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		92	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	22.2	0.82	0.45	0.93	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		-----	22.2	0.83	0.45	0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	2.60	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		-----	-----	-----	-----	-----	2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

Hart Buchler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



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212 Brooksbank Ave., North Vancouver
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 PROJECT: WOLVERINE
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC: 1 B
 Tot QC Pg: 1
 Date: 25-OCT-96
 Invoice #: 19634945
 P.O. #: 6406
 GPW

* PLEASE NOTE

QC DATA OF CERTIFICATE

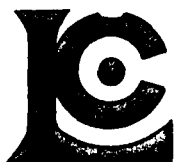
A9634945

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std1 1	188	4.88	1.80	1.05	1050	12	1.02	23	610	-----	226	0.36	157	< 10	196
	---	177	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96 CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	136	-----	-----	-----	-----	-----
	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
JL-1 CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

Donald Bachler

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 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
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 VANCOUVER, BC
 V7X 1C4

A9634945

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634945

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

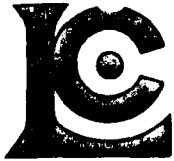
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 25-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	6	RUSH Geo ring to approx 150 mesh
295	6	RUSH crush and split (0-3 Kg)
3202	6	Rock - save entire reject
285	6	ICP - HF digestion charge
287	6	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	6	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	6	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	6	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	6	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	6	Ba ppm	XRF	10	50000
444	6	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	6	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	6	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	6	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	6	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	6	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	6	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	6	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	6	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	6	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	6	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	6	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	6	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	6	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	6	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	6	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	6	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	6	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	6	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	6	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	6	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	6	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	6	Pb ppm: 24 element, rock & core	AAS	2	10000
582	6	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	6	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	6	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	6	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	6	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total Pages: 1
 Certificate Date: 25-OCT-96
 Invoice No.: 19634945
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

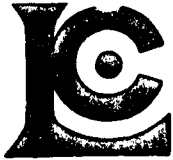
* PLEASE NOTE

CERTIFICATE OF ANALYSIS	A9634945
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SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg ppm	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH	%	%	%	S.G.	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
172289	255	295	15	0.6	0.01	< 0.01	0.02	33700	2.96	2	6.0	200	0.6	0.91	70	1.5	6	17.10	2.5	5	49
172290	255	295	15	2.8	0.02	< 0.01	0.03	45500	3.03	4	16.5	210	2.8	1.24	60	2.0	< 2	13.10	4.0	5	41
172291	255	295	90	35.0	0.33	0.04	0.32	19970	3.15	208	145	570	32.0	1.55	100	2.5	< 2	9.96	30.5	8	57
172298	255	295	65	12.6	0.57	< 0.01	0.03	19640	3.02	60	28	310	12.8	5.51	300	3.0	< 2	1.82	5.5	11	161
172299	255	295	20	2.4	0.03	0.01	0.04	17770	2.67	56	9.6	210	2.0	4.02	110	2.5	< 2	2.42	2.5	8	113
172300	255	295	15	2.7	0.01	< 0.01	0.06	5420	2.67	62	40	520	2.0	3.56	90	3.5	< 2	2.00	9.0	5	162

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
Total Pages: 1
Certificate Date: 25-OCT-96
Invoice No.: 19634945
P.O. Number: 6406
Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS

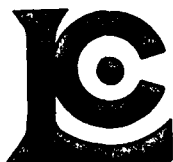
A9634945

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
172289	255	295	60	5.76	0.28	0.23	2860	< 1	0.25	10	130	22	236	0.02	27	< 10	194
172290	255	295	173	7.58	0.48	0.33	2070	2	0.17	18	340	14	191	0.04	76	< 10	328
172291	255	295	3450	11.15	0.45	2.43	3860	5	0.06	26	460	216	184	0.03	97	< 10	3060
172298	255	295	6160	2.32	2.31	1.15	685	1	0.12	39	280	2	104	0.22	211	< 10	440
172299	255	295	263	2.29	1.68	1.42	725	9	0.08	49	510	20	142	0.13	203	< 10	360
172300	255	295	107	2.70	1.58	0.41	220	16	0.04	70	2300	22	119	0.11	385	< 10	736

CERTIFICATION:

Hart Beckler

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 4 9 4 6

BILLING INFORMATION

Date: 31-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9634946

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu, Pb, Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	986.56

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
2	3222 - 5 gal. pail and lid	7.00*		14.00

	Total Cost \$	1035.56
	Client Discount (25% of \$1021.56) \$	255.39
	Net Cost \$	780.17
	(Reg# R100938885) GST \$	54.61
	TOTAL PAYABLE (CDN) \$	834.78

* Not Subject to Discount

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F. : 1-A
 Tot QC Pg: 1
 Date: 31 OCT 96
 Invoice #: 19634946
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9634946

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSH FA	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	0.007 0.008	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	0.68 0.67	3.60 3.58	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	0.58 0.62	173 175	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	0.83 0.83	0.46 0.45	0.93 0.95	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	2.60 2.62	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	4.0 4.3	5.30 5.72	100 285	< 10 < 10	< 20 < 20	3.20 3.50	< 10 < 10	360 364	290 266

CERTIFICATION: Scott B. ...

* INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC P: 1-B
 Tot QC Rg: 1
 Date: 31-OCT-96
 Invoice #: 19634946
 P.O. #: 6406
 GP W

* PLEASE NOTE

QC DATA OF CERTIFICATE A9634946

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	std1 ---	1 ---	---	---	---	---	---	---	---	---	---	---	---	---	
CD-1 CHEMEX MEAN	std1 ---	1 ---	---	---	---	---	---	---	---	---	---	---	---	---	
JV-1 CHEMEX MEAN	std1 ---	1 ---	---	---	---	---	---	---	---	---	---	---	---	---	
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	---	---	---	---	---	---	---	---	---	---	---	---	
SILICA CHEMEX MEAN	std1 ---	1 ---	---	---	---	---	---	---	---	---	---	---	---	---	
SU-1A CHEMEX MEAN	std1 ---	1 ---	10680 9440	18.50 19.35	0.8 0.8	2.60 2.70	920 961	< 10 < 10	1.40 1.38	10760 11050	0.007 0.007	220 221	0.30 0.29	110 115	540 191

CERTIFICATION: _____

* INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9634946

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9634946

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 31-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	8	RUSH Assay ring approx 150 mesh
295	8	RUSH crush and split (0-3 Kg)
3202	8	Rock - save entire reject
290	8	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	8	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	8	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	8	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	8	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	8	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	8	Ba ppm	XRF	10	50000
444	8	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	8	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	8	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	8	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	8	Ag ppm: high grade 24 element	AAS	0.5	200
4031	8	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	8	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	8	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	8	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	8	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	8	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	8	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	8	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	8	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	8	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	8	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	8	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	8	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	8	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	8	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	8	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	8	Pb %: high grade 24 element	AAS	0.001	10.00
4047	8	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	8	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	8	V ppm: A22 ICP package	ICP-AES	10	50000
4050	8	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
Total Pages: 1
Certificate Date: 31-OCT-96
Invoice No.: 19634946
P.O. Number: 6406
Account: GP W

* PLEASE NOTE

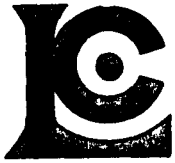
CERTIFICATE OF ANALYSIS A9634946

SAMPLE	PREP		Au g/t	Ag g/t	Cu	Pb	Zn	Ba (XRF)	Spec Gr	As	Sb	Hg	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
	CODE		RUSH	RUSH FA	%	%	%	ppm	S.G.	%	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
172287	258	295	< 0.07	3	0.01	0.03	0.14	8800	3.27	< 0.01	< 0.01	< 0.001	2.0	1.10	400	< 10	< 20	7.75	< 10	< 10	70
172288	258	295	< 0.07	< 3	0.01	0.02	0.03	20900	3.00	< 0.01	< 0.01	< 0.001	1.0	0.85	800	< 10	< 20	12.60	< 10	< 10	70
172292	258	295	1.41	581	16.30	0.22	1.52	11210	4.18	0.02	0.08	< 0.001	>200	1.00	3800	< 10	Intf*	1.55	150	100	70
172293	258	295	1.30	622	23.1	0.24	2.26	13180	4.20	0.02	0.07	< 0.001	>200	0.65	5200	< 10	Intf*	0.50	240	70	50
172294	258	295	0.27	105	0.50	1.77	18.90	2160	4.40	0.03	0.02	0.001	107.0	0.25	100	< 10	< 20	0.95	1740	30	50
172295	258	295	0.48	234	1.51	0.84	23.5	4860	4.35	0.12	0.06	0.001	>200	0.60	600	< 10	< 20	0.15	2430	80	90
172296	258	295	1.17	420	8.85	0.86	7.53	12880	4.30	0.11	0.13	< 0.001	>200	1.85	900	< 10	Intf*	0.05	750	90	10
172297	258	295	1.27	536	14.00	0.60	8.83	12230	3.95	0.15	0.10	0.001	>200	1.95	800	< 10	Intf*	0.25	900	60	60

CERTIFICATION:

Hanti Buchler

* INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
 Total Pages: 1
 Certificate Date: 31-OCT-96
 Invoice No.: 19634946
 P.O. Number: 6406
 Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9634946

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)
172287	258	295	40	16.35	0.4	0.35	1210	< 10	0.05	30	0.019	240	< 0.05	30	1560
172288	258	295	50	9.75	0.4	0.20	1670	< 10	0.05	30	0.013	260	< 0.05	30	440
172292	258	295	>100000	>30.0	0.1	0.05	260	10 < 0.05	< 10	0.186	80	< 0.05	50	14900	
172293	258	295	>100000	>30.0	< 0.1	0.05	110	10 < 0.05	10	0.186	50	< 0.05	30	22500	
172294	258	295	5390	27.6	< 0.1	0.05	530	20 < 0.05	20	1.740	30	< 0.05	< 10	>100000	
172295	258	295	17210	24.9	< 0.1	0.05	390	10 < 0.05	10	0.785	< 10	< 0.05	70	>100000	
172296	258	295	>100000	>30.0	0.4	0.05	210	10	0.05	40	0.790	< 10	< 0.05	70	66800
172297	258	295	>100000	26.7	0.5	0.20	410	10	0.05	30	0.541	10	< 0.05	90	78800

CERTIFICATION: 

* INTERFERENCE: Cu on Bi



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 2-B
 Total Pages: 5
 Certificate Date: 22-OCT-96
 Invoice No.: 19635276
 P.O. Number: 6410
 Account: GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171886	205 294	1.31	1.71	0.31	760	1	0.07	21	590	8	10	0.13	185	< 10	28
171887	205 294	3.22	1.59	0.44	2400	2	0.05	22	530	44	24	0.12	144	10	240
171888	205 294	5.39	0.86	0.38	3280	7	0.01	18	1950	356	75	0.04	112	40	7270
171889	205 294	10.65	0.37	0.21	2120	15	0.04	9	1520	1140	73	0.01	110	80	580
171890	205 294	11.60	0.25	0.35	2900	14	0.04	9	1320	840	49	< 0.01	75	70	52
171891	205 294	6.31	0.48	0.57	3250	4	0.01	21	1140	26	36	0.03	79	30	3840
171892	205 294	6.07	1.48	0.46	2680	5	0.05	29	690	160	12	0.11	166	30	676
171893	205 294	3.63	1.74	0.48	1210	3	0.07	35	990	4	14	0.13	252	10	52
171894	205 294	9.96	0.72	0.34	2310	12	0.02	13	980	428	57	0.04	133	40	648
171895	205 294	8.18	0.36	0.17	1825	9	0.02	5	1330	420	40	0.01	100	20	10
171896	205 294	8.78	0.26	0.13	2110	12	0.01	5	800	320	55	0.01	99	30	8
171897	205 294	>25.0	0.54	0.16	215	52	0.01	29	6220	1340	11	0.03	329	30	< 2
171898	205 294	7.96	0.24	0.18	2240	9	0.01	7	760	440	54	0.01	87	20	18
171899	205 294	>25.0	0.57	0.12	80	36	0.03	23	1860	3760	5	0.03	259	30	2
171900	205 294	9.29	0.22	0.21	2040	10	0.03	7	730	372	35	0.01	99	10	18
171901	205 294	11.00	0.44	0.32	2380	15	0.03	8	1190	940	29	0.03	107	40	16
171902	205 294	6.10	0.20	0.18	2100	6	0.01	4	490	524	43	0.01	59	10	14
171903	205 294	6.42	0.35	0.19	2140	9	0.01	2	1190	630	58	0.01	61	30	24
171904	205 294	15.25	0.21	0.62	5580	13	0.05	5	580	500	81	0.01	87	110	56
171905	205 294	10.05	0.23	0.25	3100	10	0.02	4	1240	510	86	0.01	86	70	102
171906	205 294	3.24	1.80	0.38	695	4	0.07	39	2130	74	18	0.15	279	10	854
171907	205 294	8.58	0.57	0.41	4050	6	0.02	11	900	350	102	0.05	137	50	2730
171908	205 294	13.65	0.34	0.51	5180	9	0.03	14	1140	214	72	0.03	117	70	154
171909	205 294	8.82	0.18	0.68	3320	8	0.03	5	460	304	158	0.02	70	50	30
171910	205 294	8.35	0.12	0.40	4230	7	0.01	4	610	430	92	< 0.01	53	50	102
171911	205 294	8.89	0.08	0.66	3160	9	0.02	5	590	580	152	0.01	72	40	22
171912	205 294	9.34	0.47	0.48	5250	8	0.02	10	1040	132	191	0.07	122	70	584
171913	205 294	5.74	0.07	0.29	995	30	0.01	29	1650	60	144	0.09	128	40	900
171914	205 294	1.87	0.64	0.20	495	6	0.01	14	110	18	22	0.08	93	< 10	452
171915	205 294	5.83	0.19	0.21	1415	17	< 0.01	17	920	92	65	0.06	158	50	1590
171916	205 294	2.11	0.03	0.20	3620	19	< 0.01	6	510	54	435	0.04	106	10	384
171917	205 294	9.64	1.24	0.43	785	10	0.09	23	460	6	110	0.19	170	60	66
171918	205 294	1.07	1.04	0.35	250	13	0.04	18	130	28	41	0.11	123	< 10	2010
171919	205 294	2.00	0.35	0.23	1535	41	0.01	12	1660	60	353	0.08	160	10	1020
171920	205 294	1.48	0.22	0.27	395	10	0.01	32	1970	224	135	0.06	171	< 10	2460
171921	205 294	1.01	1.14	0.27	100	7	0.14	21	160	130	31	0.11	103	< 10	234
171922	205 294	10.40	0.48	0.39	1080	13	0.03	7	710	< 2	164	0.07	62	40	28
171923	205 294	3.10	0.97	0.48	665	2	0.05	8	150	4	50	0.13	72	< 10	18
171924	205 294	2.29	1.53	0.33	310	17	0.07	29	140	6	40	0.17	83	< 10	100
171925	205 294	5.58	1.17	0.43	7400	3	0.53	15	320	< 2	240	0.15	91	20	32

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 0 9 2

BILLING INFORMATION

Date: 4-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

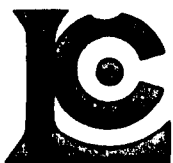
Billing: For analysis performed on
Certificate A9635092

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t	0.00 10.50	10.50	21.00
Total Cost \$				21.00
Client Discount (25%) \$				-5.25
Net Cost \$				15.75
(Reg# R100938885) GST \$				1.10
TOTAL PAYABLE (CDN) \$				16.85



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9635092

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635092

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

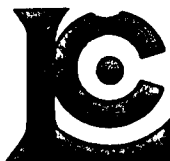
Samples submitted to our lab in Vancouver, BC.
This report was printed on 3-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	2	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1 of 1
Total Pages: 1
Certificate Date: 03-OCT-96
Invoice No.: I9635092
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635092

SAMPLE	PREP CODE	Ag FA g/t										
105931	244 --	1055										
105933	244 --	806										

CERTIFICATION: *Terry Tucker*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 1 3 3

BILLING INFORMATION

Date: 21-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9635133

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
65	205 - Geochem ring to approx 150 mesh	2.50		
	276 - 8-12 Kg crush and split	5.00		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	37.75	2453.75
		Total Cost \$		2453.75
		Client Discount (25%) \$		<u>-613.44</u>
		Net Cost \$		1840.31
		(Reg# R100938885) GST \$		<u>128.82</u>
		TOTAL PAYABLE (CDN) \$		1969.13

COPY



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC # 1-A
 Total Charge 1
 Date: 19 OCT-96
 Invoice #: 19635133
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635133

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT G96-TOT G96-TOT CHEMEX MEAN	Std1 Std2 Std1	1 1 2	----	----	----	----	----	7.74 7.97 7.69 7.52	1200 1260 1220 1155	1.5 1.0 1.0 0.5	4 4 6 < 2	2.14 2.16 2.08 2.04	1.5 2.0 2.0 1.0	19 20 20 16	102 106 104 97	190 197 187 177
GEO-96 GEO-96 GEO-96 CHEMEX MEAN	Std1 Std2 Std1	1 1 2	----	62 58 60 64	4.4 4.8 4.6 4.5	150 180 170 168	5.6 9.0 5.2 5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1	2	95 92	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blnk	1	----	----	----	< 10 19	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blnk	1	----	1 2	< 0.2 < 0.2	----	< 0.2 < 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blnk	1	----	----	----	----	0.28 0.24	20 13	< 0.5 < 0.5	< 2 < 2	0.01 0.01	< 0.5 < 0.5	< 1 < 1	4 5	1 2	
SL-96 CHEMEX MEAN	Std2	1	735 765	----	----	----	----	----	----	----	----	----	----	----	----	----
105744	Dup1-01 Orig1-01		150 200	2 2	1.6 1.8	10 20	0.4 0.6	1.96 2.06	190 200	< 0.5 0.5	< 2 < 2	0.26 0.29	2.0 2.0	9 10	256 266	78 82
175013	Dup2-01 Orig2-01		< 5 < 5	2 2	0.4 0.4	< 10 10	< 0.2 < 0.2	3.22 3.19	4830 4750	0.5 0.5	< 2 < 2	0.53 0.52	0.5 0.5	10 9	268 277	68 67

CERTIFICATION: *[Signature]*



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC: 1 B
 Total g: 1
 Date: 19 OCT-96
 Invoice #: 19635133
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635133

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C CHEMEX MEAN	Blk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	Std1	1	4.85	1.91	1.05	1110	10	1.01	24	590	----	241	0.34	164	< 10	202
G96-TOT	Std2	1	5.01	1.95	1.09	1125	8	1.05	23	600	----	248	0.37	168	< 10	204
G96-TOT	Std1	2	4.80	1.88	1.05	1095	8	1.02	26	580	----	238	0.36	161	< 10	196
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	Std1	1	----	----	----	----	----	----	----	----	132	----	----	----	----	----
GEO-96	Std2	1	----	----	----	----	----	----	----	----	132	----	----	----	----	----
GEO-96	Std1	2	----	----	----	----	----	----	----	----	130	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3 CHEMEX MEAN	Blk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2 CHEMEX MEAN	Blk	1	----	----	----	----	----	----	----	----	< 2 < 2	----	----	----	----	----
SIO2-T3 CHEMEX MEAN	Blk	1	0.04 0.05	0.07 0.03	0.01 < 0.01	< 5 20	< 1 < 1	< 0.01 < 0.01	< 1 < 1	140 207	----	139 178	0.01 < 0.01	4 2	< 10 < 10	< 2 < 2
SL-96 CHEMEX MEAN	Std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
105744	Dup1-01		10.75	0.56	0.43	2560	11	0.01	33	660	< 2	43	0.09	141	< 10	66
	Orig1-01		11.20	0.58	0.45	2690	12	0.02	37	710	< 2	43	0.09	147	< 10	68
175013	Dup2-01		1.72	1.24	0.40	1595	2	0.04	38	340	4	50	0.15	87	< 10	102
	Orig2-01		1.69	1.21	0.39	1595	1	0.04	35	340	8	49	0.14	85	< 10	102

CERTIFICATION: _____



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A9635133

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635133

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	65	Geochem ring to approx 150 mesh
276	65	8-12 Kg crush and split
3202	65	Rock - save entire reject
285	65	ICP - HF digestion charge
287	65	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	65	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	65	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	65	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	65	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	65	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	65	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	65	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	65	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	65	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	65	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	65	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	65	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	65	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	65	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	65	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	65	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	65	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	65	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	65	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	65	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	65	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	65	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	65	Pb ppm: 24 element, rock & core	AAS	2	10000
582	65	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	65	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	65	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	65	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	65	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
 Total Pages: 2
 Certificate Date: 19-OCT-96
 Invoice No.: 19635133
 P.O. Number: 6406
 Account: GPW

CERTIFICATE OF ANALYSIS A9635133

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105744	205 276	200	2	1.8	20	0.6	2.06	200	0.5	< 2	0.29	2.0	10	266	82
105745	205 276	< 5	1	0.6	< 10	< 0.2	2.37	460	1.5	< 2	0.70	2.5	7	277	44
105746	205 276	< 5	1	1.0	70	< 0.2	1.93	1450	1.5	2	0.16	< 0.5	5	266	62
105747	205 276	< 5	2	1.6	30	0.4	2.23	330	1.0	< 2	2.64	2.0	7	262	68
105748	205 276	< 5	1	0.4	350	0.4	2.21	2760	0.5	6	0.26	0.5	8	299	80
105749	205 276	10	1	1.6	40	< 0.2	2.62	410	1.0	< 2	2.48	1.5	8	232	63
105750	205 276	< 5	1	1.6	530	< 0.2	2.01	1530	1.5	< 2	0.34	< 0.5	5	248	69
105751	205 276	165	2	0.8	< 10	< 0.2	2.01	220	2.5	< 2	0.57	1.5	2	222	53
105752	205 276	< 5	4	1.6	130	< 0.2	2.75	780	2.5	< 2	0.62	1.5	6	285	54
105753	205 276	< 5	1	3.4	70	0.4	2.97	340	3.5	4	4.28	2.0	10	273	98
105754	205 276	< 5	2	1.0	190	< 0.2	2.30	200	5.5	< 2	9.15	4.0	8	224	65
105755	205 276	< 5	8	1.0	< 10	< 0.2	3.40	520	7.5	2	0.32	< 0.5	18	244	110
105912	205 276	< 5	4	8.6	90	0.2	3.49	410	3.0	2	1.71	< 0.5	6	300	36
105913	205 276	< 5	6	4.6	100	0.4	2.98	190	3.0	< 2	3.22	1.0	7	267	33
105914	205 276	< 5	4	11.0	80	1.0	2.32	860	2.5	< 2	2.93	< 0.5	5	297	27
105765	205 276	< 5	88	40	12300	2.6	5.37	310	2.0	2	6.13	167.0	13	213	1095
105766	205 276	< 5	56	16.0	160	< 0.2	1.69	4000	0.5	< 2	0.96	1.5	8	498	30
105767	205 276	< 5	46	56	320	0.4	3.97	400	3.0	2	1.50	0.5	12	361	78
105768	205 276	25	46	44	130	0.8	4.27	220	3.0	2	2.84	2.0	9	326	42
105769	205 276	< 5	12	39	200	0.4	4.29	300	3.0	< 2	8.53	0.5	10	176	23
105770	205 276	20	48	35	110	1.8	7.29	450	4.5	2	3.32	11.0	4	209	54
105771	205 276	15	46	36	2300	0.6	2.02	160	2.0	< 2	2.42	< 0.5	4	362	47
105772	205 276	20	44	34	1000	3.2	6.96	330	4.0	6	3.52	7.0	5	210	553
105773	205 276	25	96	48	1970	3.0	6.19	230	4.5	8	3.55	18.0	5	282	88
105774	205 276	5	18	11.0	720	0.6	5.36	480	3.0	10	2.91	6.0	4	278	14
105775	205 276	15	42	25	600	1.6	5.43	310	4.0	< 2	3.14	13.0	5	364	31
105776	205 276	20	84	36	960	2.8	3.74	230	4.0	8	1.39	29.0	7	417	76
105777	205 276	< 5	12	3.4	60	< 0.2	7.70	810	4.5	2	0.84	< 0.5	5	242	9
175001	205 276	< 5	1	0.4	10	< 0.2	3.22	4010	0.5	4	1.29	< 0.5	11	262	87
175002	205 276	< 5	2	0.4	< 10	< 0.2	2.69	2200	0.5	2	2.67	< 0.5	12	293	59
175003	205 276	85	8	0.4	60	< 0.2	8.48	3230	0.5	< 2	8.09	1.5	31	350	65
175004	205 276	< 5	12	0.6	10	< 0.2	8.41	2070	0.5	< 2	5.98	1.0	36	332	74
175005	205 276	< 5	8	0.4	< 10	< 0.2	6.21	1700	< 0.5	< 2	5.86	2.0	35	136	26
175006	205 276	< 5	1	0.6	10	< 0.2	6.91	4010	0.5	< 2	5.59	3.0	29	40	23
175007	205 276	< 5	8	0.2	10	< 0.2	6.15	2670	0.5	< 2	6.13	1.5	33	41	14
175008	205 276	< 5	2	< 0.2	< 10	< 0.2	2.09	1980	0.5	< 2	4.73	0.5	6	254	33
175009	205 276	< 5	4	< 0.2	< 10	< 0.2	4.15	2860	0.5	< 2	2.60	0.5	16	193	56
175010	205 276	< 5	16	0.2	< 10	< 0.2	5.59	580	< 0.5	< 2	3.10	1.0	28	232	80
175011	205 276	< 5	1	0.2	10	< 0.2	4.85	3020	1.5	< 2	1.96	1.5	10	209	43
175012	205 276	< 5	2	0.2	30	< 0.2	2.16	2600	0.5	< 2	2.29	0.5	7	370	43

CERTIFICATION: *Muller*



Chemex Labs Ltd.

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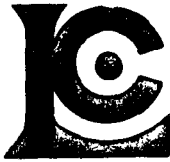
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635133

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105744	205 276	11.20	0.58	0.45	2690	12	0.02	37	710	< 2	43	0.09	147	< 10	68
105745	205 276	11.40	0.63	0.44	1885	12	0.04	23	330	< 2	207	0.10	112	< 10	54
105746	205 276	0.90	0.59	0.24	90	3	0.24	30	90	10	224	0.06	115	< 10	76
105747	205 276	8.04	0.77	0.79	5740	5	0.03	30	590	4	271	0.10	130	< 10	50
105748	205 276	1.02	0.90	0.23	250	1	0.07	45	240	32	53	0.07	144	< 10	612
105749	205 276	7.96	1.06	0.68	7410	3	0.04	35	690	< 2	185	0.12	148	< 10	144
105750	205 276	1.09	0.70	0.22	280	2	0.07	36	110	8	144	0.07	122	< 10	402
105751	205 276	6.58	0.28	0.37	1320	4	0.01	12	580	< 2	146	0.09	130	< 10	44
105752	205 276	1.41	1.00	0.46	175	9	0.03	45	130	12	52	0.12	105	< 10	742
105753	205 276	4.09	1.27	0.49	1650	1	0.03	52	880	304	141	0.14	157	< 10	652
105754	205 276	8.69	0.45	0.66	4250	4	0.03	27	890	96	294	0.10	145	< 10	992
105755	205 276	1.44	1.48	0.31	200	1	0.06	34	330	14	16	0.14	182	< 10	28
105912	205 276	2.50	1.99	0.64	500	< 1	0.09	27	200	< 2	143	0.09	77	< 10	124
105913	205 276	3.14	1.73	0.48	815	< 1	0.12	38	110	< 2	108	0.07	79	< 10	366
105914	205 276	1.43	0.42	0.34	730	1	0.03	23	80	< 2	156	0.05	45	< 10	104
105765	205 276	3.61	2.46	0.68	820	3	0.08	29	220	30	219	0.11	80	< 10	>10000
105766	205 276	0.69	0.82	0.31	240	1	0.02	19	30	< 2	69	0.06	65	< 10	168
105767	205 276	2.50	1.82	0.80	600	2	0.05	47	240	< 2	58	0.16	141	< 10	160
105768	205 276	3.12	1.91	1.28	825	5	0.05	54	830	4	93	0.17	203	< 10	216
105769	205 276	2.58	1.97	3.55	2560	3	0.04	24	230	< 2	278	0.15	88	< 10	106
105770	205 276	2.58	3.09	0.69	365	19	0.11	32	150	40	151	0.14	291	< 10	742
105771	205 276	2.61	0.76	0.25	250	10	0.01	52	890	10	89	0.06	109	< 10	74
105772	205 276	2.22	3.38	0.79	395	18	0.10	35	370	56	152	0.13	413	< 10	554
105773	205 276	2.57	3.16	0.88	315	26	0.08	73	2460	56	132	0.14	649	< 10	1300
105774	205 276	1.80	2.82	0.83	265	6	0.07	16	140	18	125	0.10	88	< 10	316
105775	205 276	2.71	2.76	0.60	275	18	0.06	64	1760	36	201	0.14	499	< 10	762
105776	205 276	4.87	1.93	0.42	155	32	0.04	100	2330	40	88	0.12	882	< 10	1690
105777	205 276	2.35	3.74	0.63	155	5	0.15	9	510	20	54	0.19	75	< 10	52
175001	205 276	2.18	1.39	0.89	2160	1	0.11	41	320	2	113	0.16	113	< 10	64
175002	205 276	2.13	1.08	0.81	3340	1	0.01	34	430	4	157	0.17	86	< 10	62
175003	205 276	4.63	1.39	2.32	1855	< 1	3.33	106	300	< 2	331	0.47	159	< 10	344
175004	205 276	4.97	0.90	3.07	1375	< 1	3.54	100	350	< 2	248	0.55	173	< 10	60
175005	205 276	7.45	0.24	2.43	1550	< 1	2.43	24	1040	< 2	307	1.11	301	< 10	104
175006	205 276	7.76	0.34	1.65	1645	8	3.77	10	1250	< 2	363	1.29	326	< 10	122
175007	205 276	7.28	0.32	2.04	1675	< 1	2.64	8	960	< 2	442	1.02	270	< 10	108
175008	205 276	1.32	0.84	0.57	1070	1	0.06	23	560	4	232	0.16	61	< 10	70
175009	205 276	2.62	1.04	1.36	1215	1	0.95	32	700	< 2	144	0.43	118	< 10	76
175010	205 276	4.41	0.22	2.62	2070	1	2.27	63	540	< 2	195	0.39	171	< 10	76
175011	205 276	2.30	1.64	1.12	1395	1	0.73	24	740	10	145	0.29	96	< 10	70
175012	205 276	1.48	0.82	0.37	2120	4	0.03	25	340	14	197	0.11	56	< 10	68

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page 1 of 2 A
 Total Pages 12
 Certificate Date: 19 OCT-96
 Invoice No. : 19635133
 P.O. Number : 6406
 Account : GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635133

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175013	205 276	< 5	2	0.4	10	< 0.2	3.19	4750	0.5	< 2	0.52	0.5	9	277	67
175014	205 276	< 5	1	0.4	20	< 0.2	2.77	4000	0.5	6	0.88	< 0.5	11	275	48
175015	205 276	< 5	1	0.8	< 10	< 0.2	2.59	4960	0.5	< 2	0.55	< 0.5	9	332	73
175016	205 276	< 5	2	1.2	10	< 0.2	3.00	4550	0.5	< 2	0.40	0.5	14	202	69
175017	205 276	< 5	6	0.4	< 10	< 0.2	3.47	4190	1.0	2	0.29	< 0.5	14	300	66
175018	205 276	< 5	1	0.2	< 10	< 0.2	3.07	4110	0.5	< 2	0.38	< 0.5	12	129	65
175019	205 276	< 5	1	0.2	< 10	< 0.2	3.73	3950	0.5	4	0.69	0.5	15	113	103
175020	205 276	< 5	1	0.2	30	< 0.2	1.90	3020	0.5	2	0.33	< 0.5	12	233	59
175021	205 276	< 5	2	0.2	10	< 0.2	2.17	3710	0.5	< 2	0.32	< 0.5	10	205	49
175022	205 276	< 5	1	0.2	< 10	< 0.2	2.86	3130	1.0	< 2	0.17	< 0.5	12	234	33
175023	205 276	< 5	2	0.2	< 10	< 0.2	3.54	4460	1.0	< 2	1.01	< 0.5	12	264	31
175024	205 276	< 5	1	0.4	< 10	< 0.2	4.11	3960	1.5	< 2	1.01	< 0.5	13	146	71
175025	205 276	< 5	2	0.4	< 10	< 0.2	3.97	4150	1.5	< 2	1.08	0.5	12	169	43
175026	205 276	< 5	1	0.2	< 10	< 0.2	3.88	4150	1.5	< 2	1.18	< 0.5	11	134	26
175027	205 276	< 5	2	0.2	< 10	< 0.2	2.53	1610	0.5	< 2	2.44	< 0.5	8	302	28
175028	205 276	< 5	1	0.4	20	< 0.2	2.19	1500	0.5	< 2	1.07	< 0.5	7	239	42
175029	205 276	< 5	8	0.2	< 10	< 0.2	2.53	3710	0.5	< 2	0.51	< 0.5	10	185	61
175030	205 276	< 5	1	0.4	< 10	< 0.2	2.54	1440	0.5	< 2	0.65	< 0.5	8	248	74
175031	205 276	< 5	2	0.4	< 10	< 0.2	2.54	6510	0.5	2	0.90	< 0.5	8	297	52
175032	205 276	< 5	4	1.0	< 10	< 0.2	2.96	1020	1.0	< 2	1.15	0.5	9	257	52
175033	205 276	< 5	2	0.2	< 10	< 0.2	2.64	3320	0.5	< 2	1.38	0.5	10	269	13
175034	205 276	< 5	1	0.2	< 10	< 0.2	2.27	2020	1.5	< 2	1.99	2.5	15	198	53
175035	205 276	< 5	1	1.2	50	< 0.2	7.85	>10000	2.5	< 2	1.11	2.0	43	214	19
175036	205 276	< 5	12	4.4	110	1.0	3.59	400	1.5	< 2	0.57	0.5	10	486	105
175037	205 276	30	34	8.2	210	2.6	4.03	170	1.5	8	1.13	2.5	10	356	126

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

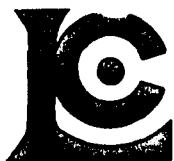
Page: 1 of 2
Total: 12
Certificate Date: 19-OCT-96
Invoice No.: 19635133
P.O. Number: 6406
Account: GPW

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635133

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175013	205 276	1.69	1.21	0.39	1595	1	0.04	35	340	8	49	0.14	85	< 10	102
175014	205 276	1.73	0.95	0.69	1085	< 1	0.11	103	340	4	104	0.13	145	< 10	74
175015	205 276	1.79	1.01	0.49	635	1	0.03	55	260	< 2	77	0.12	82	< 10	108
175016	205 276	1.82	1.20	0.75	1405	1	0.03	42	230	4	66	0.15	81	< 10	80
175017	205 276	2.11	1.35	0.82	830	< 1	0.04	35	250	2	50	0.17	68	< 10	72
175018	205 276	1.90	1.08	0.69	1400	1	0.18	29	220	4	73	0.16	59	< 10	72
175019	205 276	2.56	0.72	0.84	1500	< 1	1.16	17	340	4	136	0.23	86	< 10	62
175020	205 276	1.42	0.48	0.51	1345	< 1	0.11	25	170	< 2	41	0.11	37	< 10	46
175021	205 276	1.32	0.81	0.43	1210	1	0.02	23	160	< 2	80	0.10	47	< 10	40
175022	205 276	1.51	1.11	0.51	925	< 1	0.03	29	170	6	30	0.12	56	< 10	56
175023	205 276	1.96	1.43	1.06	1990	< 1	0.04	34	250	6	128	0.14	67	< 10	72
175024	205 276	2.29	1.57	1.23	1080	< 1	0.05	37	210	6	103	0.16	75	< 10	76
175025	205 276	2.22	1.53	1.25	1035	< 1	0.04	36	220	4	115	0.15	80	< 10	76
175026	205 276	2.21	1.51	1.17	1310	< 1	0.04	39	260	< 2	125	0.15	74	< 10	68
175027	205 276	1.68	0.92	0.92	2490	< 1	0.02	25	320	4	369	0.10	53	< 10	52
175028	205 276	1.72	0.73	0.62	940	2	0.01	38	260	10	116	0.09	61	< 10	84
175029	205 276	1.71	0.86	0.65	1595	1	0.01	30	270	4	80	0.11	56	< 10	64
175030	205 276	1.63	0.93	0.64	1590	5	0.03	37	150	6	84	0.11	78	< 10	62
175031	205 276	1.73	1.00	0.63	1340	< 1	0.03	27	100	22	94	0.10	86	< 10	54
175032	205 276	2.42	1.09	0.68	1795	1	0.05	32	260	26	110	0.12	97	< 10	70
175033	205 276	1.87	0.75	0.58	1980	6	0.02	48	410	8	123	0.12	99	< 10	198
175034	205 276	2.53	0.27	0.76	3890	10	0.01	53	250	< 2	108	0.07	70	< 10	590
175035	205 276	5.42	2.45	0.60	4960	3	0.15	147	1850	6	121	0.51	186	< 10	394
175036	205 276	2.53	1.16	0.32	465	4	0.07	66	1720	8	54	0.16	242	< 10	74
175037	205 276	2.70	1.59	0.33	130	5	0.08	102	4760	22	66	0.16	357	< 10	208

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 2 5 9

BILLING INFORMATION

Date: 22-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

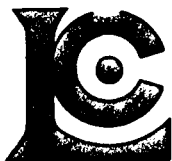
Billing: For analysis performed on
Certificate A9635259

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
23	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	801.55
				Total Cost \$ 801.55
				Client Discount (25%) \$ -200.39
				Net Cost \$ 601.16
				(Reg# R100938885) GST \$ 42.08
				TOTAL PAYABLE (CDN) \$ 643.24



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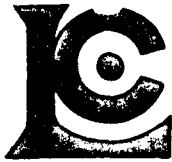
QC F 1-A
 Tot QC pg: 1
 Date: 22-OCT-96
 Invoice #: 19635259
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635259

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	std2	1	----	----	----	----	----	7.91 7.52	1270 1155	1.0 0.5	< 2 < 2	2.11 2.04	1.5 1.0	18 16	102 97	193 177
GEO-96 CHEMEX MEAN	std1	1	----	60 64	5.2 4.5	170 168	5.6 5.5	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	std1	1	95 92	----	----	----	----	----	----	----	----	----	----	----	----	----
105864	Dup Orig	1-01 1-01	25 25	2 2	0.2 0.4	30 40	0.4 0.4	2.08 2.12	130 280	< 0.5 < 0.5	< 2 < 2	1.07 1.09	3.5 3.0	4 3	135 142	72 74

CERTIFICATION: Hans Buehler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC: 1 B
 Tot QC Pg: 1
 Date: 22 OCT-96
 Invoice #: 19635259
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9635259

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std2	1	5.00 4.41	1.96 1.86	1.07 1.03	1100 927	10 9	1.09 1.03	23 20	600 648	----- -----	246 226	0.36 0.35	165 156	< 10 20	204 186
GEO-96 CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	120 120	----- -----	----- -----	----- -----	----- -----	----- -----
JL-1 CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
105864	Dupl-01 Origl-01	01 01	19.10 18.95	0.16 0.15	0.61 0.62	2030 2060	< 1 < 1	0.01 0.01	26 24	630 640	< 2 < 2	190 186	0.06 0.07	174 173	< 10 < 10	142 144

CERTIFICATION: _____



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A9635259

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635259

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	23	Geochem ring to approx 150 mesh
226	23	0-3 Kg crush and split
3202	23	Rock - save entire reject
285	23	ICP - HF digestion charge
287	23	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	23	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	23	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	23	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	23	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	23	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	23	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	23	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	23	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	23	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	23	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	23	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	23	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	23	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	23	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	23	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	23	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	23	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	23	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	23	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	23	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	23	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	23	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	23	Pb ppm: 24 element, rock & core	AAS	2	10000
582	23	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	23	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	23	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	23	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	23	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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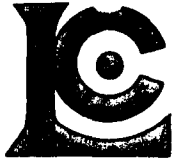
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 11 A
 Total Pages: 11
 Certificate Date: 22-OCT-96
 Invoice No.: 19635259
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9635259

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105864	205 226	25	2	0.4	40	0.4	2.12	280	< 0.5	< 2	1.09	3.0	3	142	74
105865	205 226	< 5	1	0.2	40	< 0.2	1.62	2050	1.5	< 2	0.16	< 0.5	3	104	47
105866	205 226	50	2	5.2	40	< 0.2	1.94	220	0.5	< 2	7.30	1.5	6	124	64
105867	205 226	10	1	1.0	160	0.4	2.54	480	1.0	< 2	5.67	< 0.5	8	204	66
105868	205 226	15	2	3.0	450	0.4	2.23	150	4.0	< 2	10.05	6.0	6	118	55
105869	205 226	60	1	1.8	50	< 0.2	3.39	190	6.0	< 2	0.30	2.0	18	186	106
105870	205 226	< 5	12	5.8	30	< 0.2	4.26	370	1.5	< 2	1.98	0.5	12	128	79
105871	205 226	< 5	26	5.2	50	0.4	3.38	380	1.5	< 2	0.80	< 0.5	12	123	49
105872	205 226	20	54	6.8	150	1.0	3.90	330	2.0	< 2	0.92	2.0	5	173	62
105873	205 226	25	36	8.4	100	1.2	3.83	330	2.0	< 2	1.21	1.5	6	155	50
105874	205 226	35	46	11.5	130	1.2	5.28	330	2.5	< 2	3.06	3.0	10	146	55
105887	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105888	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105889	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105890	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105891	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105892	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105893	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105894	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105895	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105896	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105897	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105898	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105899	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
105900	205 226	10	4	6.2	2450	< 0.2	8.14	660	4.5	< 2	0.71	1.5	3	69	7
105901	205 226	< 5	6	13.0	970	0.8	6.76	460	4.0	< 2	1.90	2.0	3	95	17
105902	205 226	< 5	18	10.5	330	0.6	4.23	210	2.0	< 2	6.14	2.0	3	236	13
105903	205 226	< 5	40	19.0	1590	1.0	8.77	410	4.0	< 2	1.26	9.0	3	66	24
105904	205 226	< 5	16	10.5	550	0.6	8.21	390	3.5	< 2	1.79	6.5	4	108	121
105905	205 226	< 5	6	5.6	200	< 0.2	5.84	310	2.5	< 2	2.04	0.5	4	90	12
105906	205 226	< 5	40	30	660	1.8	4.83	220	3.0	< 2	4.22	11.5	4	187	50
105907	205 226	10	68	41	990	2.6	8.66	1430	6.5	< 2	1.01	21.0	6	72	58
105908	205 226	< 5	6	8.8	70	0.4	10.35	580	3.5	< 2	1.07	< 0.5	6	56	12
105909	205 226	< 5	2	3.4	100	0.2	7.29	760	3.0	< 2	1.54	0.5	4	95	13
105910	205 226	< 5	1	3.2	130	< 0.2	7.69	3590	2.0	< 2	1.88	< 0.5	4	78	44
105911	205 226	< 5	4	5.6	130	0.2	6.03	400	2.0	< 2	0.38	< 0.5	4	153	8

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page : 1 of 1-B
Total Pages : 1
Certificate Date: 22-OCT-96
Invoice No. : 19635259
P.O. Number : 6406
Account : GP W

CERTIFICATE OF ANALYSIS

A9635259

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105864	205 226	18.95	0.15	0.62	2060	< 1	0.01	24	640	< 2	186	0.07	173	< 10	144
105865	205 226	0.88	0.56	0.20	125	4	0.05	24	70	8	188	0.06	94	< 10	46
105866	205 226	8.73	0.67	0.93	9220	< 1	0.03	21	1330	< 2	362	0.09	152	< 10	56
105867	205 226	3.56	1.03	0.44	3430	5	0.08	49	680	6	446	0.11	127	< 10	330
105868	205 226	8.70	0.45	0.77	4740	4	0.03	22	1000	326	391	0.09	140	< 10	1805
105869	205 226	3.97	1.13	0.30	265	2	0.26	37	330	58	47	0.12	142	< 10	160
105870	205 226	2.99	1.93	1.26	3630	1	0.05	43	600	< 2	176	0.17	127	< 10	180
105871	205 226	1.67	1.05	0.58	420	2	0.05	51	590	< 2	87	0.12	149	< 10	186
105872	205 226	2.44	0.96	0.52	435	10	0.07	69	1620	< 2	118	0.12	370	< 10	458
105873	205 226	2.11	0.96	0.46	465	7	0.07	65	1500	< 2	123	0.12	332	< 10	654
105874	205 226	3.16	2.22	1.79	1210	20	0.08	76	1210	10	256	0.21	302	< 10	432
105887	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105888	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105889	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105890	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105891	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105892	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105893	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105894	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105895	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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105897	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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105899	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
105900	205 226	1.19	4.14	1.25	95	4	0.14	6	30	16	28	0.13	51	< 10	132
105901	205 226	2.42	3.58	1.02	175	7	0.10	18	350	28	94	0.13	124	< 10	144
105902	205 226	1.57	2.30	0.64	490	4	0.04	30	850	10	382	0.10	130	< 10	114
105903	205 226	2.12	4.17	0.85	140	6	0.17	24	530	40	79	0.16	315	< 10	528
105904	205 226	2.25	4.12	0.79	160	7	0.16	12	350	24	127	0.21	158	< 10	448
105905	205 226	1.70	3.10	0.71	215	2	0.09	5	230	12	153	0.15	43	< 10	50
105906	205 226	2.30	2.57	0.55	420	18	0.05	53	1360	36	339	0.13	393	< 10	706
105907	205 226	3.64	4.28	0.79	140	28	0.15	59	1160	40	78	0.24	834	< 10	1220
105908	205 226	3.21	4.35	0.76	140	3	0.76	9	610	16	132	0.25	66	< 10	44
105909	205 226	1.64	3.64	0.65	250	< 1	0.14	4	520	16	109	0.17	30	< 10	78
105910	205 226	1.22	3.61	0.34	305	1	0.17	5	650	20	179	0.19	30	< 10	42
105911	205 226	1.53	3.33	0.17	50	3	0.18	19	620	34	106	0.12	117	< 10	22

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

Client: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER **I 9 6 3 5 2 7 6**

BILLING INFORMATION

Date: 23-OCT-96
 Project: WOLVERINE REGIONAL
 P.O. No.: 6410
 Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9635276

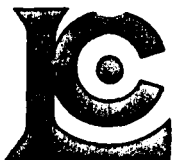
Terms: Payment due on receipt of invoice
 1.25% per month (15% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
200	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	7250.00
				Total Cost \$ 7250.00
				Client Discount (25%) \$ 1812.50
				Net Cost \$ 5437.50
				(Reg# R100938885) GST \$ <u>380.63</u>
				TOTAL PAYABLE (CDN) \$ 5818.13

2nd half of
WV96-55
171846
172045



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Co: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC #: 1 A
 Tot QC mg: 2
 Date: 22 OCT-96
 Invoice #: 19635276
 P.O. #: 6410
 GPW

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635276

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	4	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	5	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	7.69	1320	1.5	< 2	2.26	< 0.5	16	94	178	
G96-TOT	std2	1	----	----	----	----	6.99	1190	1.5	< 2	2.14	< 0.5	16	92	168	
G96-TOT	std1	2	----	----	----	----	6.62	960	1.5	2	2.09	< 0.5	16	77	158	
G96-TOT	std2	2	----	----	----	----	7.04	1160	2.5	2	2.13	0.5	16	91	166	
G96-TOT	std1	3	----	----	----	----	6.77	1070	2.0	8	2.06	1.0	16	83	158	
G96-TOT	std2	3	----	----	----	----	7.40	1170	1.5	2	2.19	1.0	17	91	178	
G96-TOT	std1	4	----	----	----	----	7.20	1170	1.5	4	2.12	1.0	17	93	172	
G96-TOT	std2	4	----	----	----	----	7.56	1080	1.5	< 2	2.17	< 0.5	16	96	178	
G96-TOT	std1	5	----	----	----	----	7.45	1190	1.0	2	2.25	1.0	18	94	176	
G96-TOT	std2	5	----	----	----	----	7.47	1120	0.5	< 2	2.24	0.5	17	96	180	
CHEMEX MEAN	----	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177	
GEO-96	std1	1	----	60	4.8	150	5.2	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	56	4.8	160	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std1	2	----	56	4.6	150	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std2	2	----	58	5.0	130	5.2	----	----	----	----	----	----	----	----	----
GEO-96	std1	3	----	56	5.0	150	5.8	----	----	----	----	----	----	----	----	----
GEO-96	std2	3	----	58	4.6	140	9.2	----	----	----	----	----	----	----	----	----
GEO-96	std1	4	----	56	4.8	170	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std2	4	----	56	4.8	180	5.8	----	----	----	----	----	----	----	----	----
GEO-96	std1	5	----	56	4.4	150	5.0	----	----	----	----	----	----	----	----	----
GEO-96	std2	5	----	58	4.8	180	5.4	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
JL-1	std1	2	90	----	----	----	----	----	----	----	----	----	----	----	----	----
JL-1	std2	3	95	----	----	----	----	----	----	----	----	----	----	----	----	----
JL-1	std1	5	85	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	92	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	5	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	3	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	4	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	5	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----

CERTIFICATION: *Hank Buchler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 1 B
 Tot QC . g. 2
 Date: 22-OCT-96
 Invoice #: 19635276
 P.O. #: 6410
 GPW

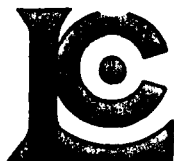
Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635276

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	4	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	5	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
G96-TOT	Std1	1	4.93	1.79	1.05	1010	11	0.92	23	690	----	215	0.36	149	< 10	198
G96-TOT	Std2	1	4.44	1.78	0.94	975	10	1.01	21	590	----	219	0.34	147	40	180
G96-TOT	Std1	2	4.41	1.63	0.95	905	9	0.82	21	720	----	186	0.31	138	30	186
G96-TOT	Std2	2	4.44	1.82	0.93	1050	11	0.96	21	580	----	212	0.34	143	30	180
G96-TOT	Std1	3	4.36	1.76	0.93	995	10	0.89	20	620	----	197	0.32	138	30	176
G96-TOT	Std2	3	4.82	1.87	1.00	1015	11	1.03	20	600	----	227	0.36	154	30	192
G96-TOT	Std1	4	4.59	1.79	0.96	960	11	0.98	20	610	----	217	0.35	150	30	184
G96-TOT	Std2	4	4.77	1.83	1.01	975	11	0.99	20	610	----	221	0.36	152	30	190
G96-TOT	Std1	5	4.83	1.85	1.03	1015	10	1.00	22	650	----	224	0.37	156	30	196
G96-TOT	Std2	5	4.76	1.75	1.01	975	10	0.93	22	660	----	211	0.36	146	30	190
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	Std1	1	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	Std2	1	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	Std1	2	----	----	----	----	----	----	----	----	134	----	----	----	----	
GEO-96	Std2	2	----	----	----	----	----	----	----	----	132	----	----	----	----	
GEO-96	Std1	3	----	----	----	----	----	----	----	----	140	----	----	----	----	
GEO-96	Std2	3	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	Std1	4	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	Std2	4	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	Std1	5	----	----	----	----	----	----	----	----	132	----	----	----	----	
GEO-96	Std2	5	----	----	----	----	----	----	----	----	130	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	
JL-1	Std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
JL-1	Std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	
JL-1	Std1	5	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	5	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	2	----	----	----	----	
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	4	----	----	----	----	
SIO2-G2	Blnk	3	----	----	----	----	----	----	----	----	< 2	----	----	----	----	
SIO2-G2	Blnk	4	----	----	----	----	----	----	----	----	< 2	----	----	----	----	
SIO2-G2	Blnk	5	----	----	----	----	----	----	----	----	< 2	----	----	----	----	

CERTIFICATION:

Terry Tucker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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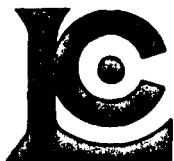
QC # 2-A
 Tot QC Pg: 2
 Date: 22 OCT-96
 Invoice #: 196352/6
 P.O. #: 6410
 GPW

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635276

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
CHEMEX MEAN	---	---	-----	2	< 0.2	-----	< 0.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	-----	-----	-----	-----	-----	0.30	60	< 0.5	< 2	0.03	< 0.5	< 1	< 1	1
SIO2-T3	Blnk	2	-----	-----	-----	-----	-----	0.30	30	< 0.5	< 2	0.03	< 0.5	< 1	7	1
SIO2-T3	Blnk	3	-----	-----	-----	-----	-----	0.33	60	< 0.5	< 2	0.03	< 0.5	< 1	2	2
SIO2-T3	Blnk	4	-----	-----	-----	-----	-----	0.31	50	< 0.5	< 2	0.02	< 0.5	< 1	< 1	1
SIO2-T3	Blnk	5	-----	-----	-----	-----	-----	0.31	30	< 0.5	< 2	0.02	< 0.5	< 1	5	2
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
SL-96	std2	1	775	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SL-96	std1	3	785	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SL-96	std2	4	780	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	765	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	std1	1	220	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	std2	2	280	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	std1	4	220	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	std2	5	225	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
171846	Dup1-01		< 5	4	0.8	60	< 0.2	3.37	380	2.0	< 2	1.25	< 0.5	6	176	60
	Orig1-01		< 5	2	0.8	60	< 0.2	3.20	330	2.0	< 2	1.21	< 0.5	6	181	56
171886	Dup2-01		< 5	6	0.2	10	< 0.2	3.52	620	5.5	< 2	0.67	< 0.5	10	194	66
	Orig2-01		< 5	6	< 0.2	20	< 0.2	3.27	620	5.0	< 2	0.64	< 0.5	9	192	61
171926	Dup3-01		< 5	2	< 0.2	10	< 0.2	3.64	3670	1.5	< 2	0.39	< 0.5	4	115	51
	Orig3-01		< 5	2	< 0.2	10	< 0.2	3.62	4970	2.0	6	0.44	< 0.5	5	140	52
171966	Dup4-01		< 5	8	< 0.2	10	< 0.2	3.74	1120	5.0	< 2	0.89	< 0.5	8	142	112
	Orig4-01		< 5	10	< 0.2	< 10	< 0.2	3.69	1080	5.0	2	0.86	< 0.5	8	156	104
172006	Dup5-01		10	6	3.8	110	< 0.2	4.22	90	2.5	< 2	2.38	0.5	9	131	48
	Orig5-01		5	8	3.8	120	0.8	4.20	70	2.5	< 2	2.24	< 0.5	8	136	50

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P 2 B
 Tot QC Pg: 2
 Date: 22-OCT-96
 Invoice #: 19635276
 P.O. #: 6410
 GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9635276

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	< 2	-----	-----	-----	-----	-----
SIO2-T3	Blnk	1	0.06	0.07	0.01	5	< 1	0.01	< 1	160	-----	138	0.01	4	< 10	< 2
SIO2-T3	Blnk	2	0.06	0.06	0.01	5	< 1	0.01	1	150	-----	136	0.01	4	< 10	2
SIO2-T3	Blnk	3	0.08	0.07	0.01	5	< 1	0.01	< 1	160	-----	148	0.01	4	< 10	2
SIO2-T3	Blnk	4	0.06	0.07	0.01	< 5	< 1	0.01	< 1	150	-----	131	0.01	4	< 10	< 2
SIO2-T3	Blnk	5	0.06	0.06	0.01	< 5	< 1	0.01	1	160	-----	128	0.01	3	< 10	< 2
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	-----	178	< 0.01	2	< 10	< 2
SL-96	Std2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SL-96	Std1	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SL-96	Std2	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std2	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
171846	Dup1-01		3.13	1.26	0.67	900	3	0.06	44	550	6	58	0.18	84	< 10	94
	Orig1-01		2.89	1.27	0.63	885	3	0.06	43	520	8	60	0.17	84	< 10	84
171886	Dup2-01		1.41	1.82	0.34	785	1	0.07	22	580	12	10	0.14	195	< 10	30
	Orig2-01		1.31	1.71	0.31	760	1	0.07	21	590	8	10	0.13	185	< 10	28
171926	Dup3-01		4.13	1.43	0.44	545	8	0.10	14	240	< 2	64	0.16	95	< 10	22
	Orig3-01		4.15	1.57	0.45	630	9	0.12	16	270	< 2	76	0.16	93	10	22
171966	Dup4-01		1.77	1.80	0.30	185	3	0.07	20	500	36	99	0.15	176	< 10	30
	Orig4-01		1.69	1.72	0.31	180	3	0.08	23	480	32	97	0.13	171	< 10	30
172006	Dup5-01		2.51	2.06	0.82	425	10	0.07	39	790	36	92	0.22	162	< 10	204
	Orig5-01		2.46	2.02	0.80	405	10	0.06	37	720	32	91	0.21	157	< 10	198

CERTIFICATION: _____



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J: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9635276

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635276

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE REGIONAL
 P.O. #: 6410

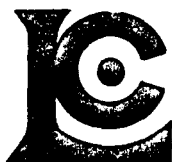
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 22-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	200	Geochem ring to approx 150 mesh
294	200	4-7 Kg crush and split
3202	200	Rock - save entire reject
285	200	ICP - HF digestion charge
287	200	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	200	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	200	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	200	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	200	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	200	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	200	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	200	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	200	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	200	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	200	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	200	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	200	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	200	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	200	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	200	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	200	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	200	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	200	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	200	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	200	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	200	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	200	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	200	Pb ppm: 24 element, rock & core	AAS	2	10000
582	200	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	200	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	200	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	200	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	200	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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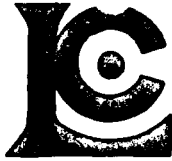
Project: WOLVERINE REGIONAL
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Page: 1 of 1
 Total Pages: 5
 Certificate Date: 22-OCT-96
 Invoice No.: 19635276
 P.O. Number: 6410
 Account: GPW

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171846	205 294	< 5	2	0.8	60	< 0.2	3.20	330	2.0	< 2	1.21	< 0.5	6	181	56
171847	205 294	10	1	0.4	60	< 0.2	2.87	250	4.0	< 2	3.54	< 0.5	5	148	61
171848	205 294	5	1	1.2	70	< 0.2	2.35	130	3.5	< 2	2.11	< 0.5	6	170	103
171849	205 294	< 5	1	0.2	190	< 0.2	1.74	220	3.5	2	5.80	< 0.5	6	110	44
171850	205 294	< 5	2	0.2	20	< 0.2	2.20	2660	6.5	< 2	2.21	< 0.5	1	143	19
171851	205 294	< 5	1	0.2	10	< 0.2	2.12	970	7.0	< 2	1.83	< 0.5	3	186	40
171852	205 294	< 5	1	0.2	10	< 0.2	1.63	7160	2.5	2	1.99	< 0.5	2	81	59
171853	205 294	< 5	2	0.4	10	< 0.2	0.33	200	6.0	2	2.69	< 0.5	< 1	55	12
171854	205 294	< 5	166	2.0	180	< 0.2	0.14	40	2.5	< 2	16.20	< 0.5	4	27	18
171855	205 294	< 5	2	0.4	270	< 0.2	0.35	170	6.0	2	1.87	< 0.5	< 1	58	26
171856	205 294	< 5	1	2.8	2230	< 0.2	0.45	10	2.0	6	17.80	< 0.5	1	31	7
171857	205 294	< 5	2	1.4	80	< 0.2	1.02	60	3.0	< 2	2.69	< 0.5	< 1	120	25
171858	205 294	< 5	1	2.4	90	< 0.2	0.96	50	2.0	< 2	6.64	< 0.5	< 1	51	30
171859	205 294	15	1	3.6	40	< 0.2	1.40	30	1.5	< 2	7.44	< 0.5	1	113	38
171860	205 294	20	12	3.2	310	< 0.2	2.76	70	3.5	< 2	4.65	< 0.5	7	147	82
171861	205 294	25	10	1.6	120	0.4	2.66	90	4.0	4	4.31	< 0.5	12	199	104
171862	205 294	< 5	2	0.8	80	< 0.2	2.48	60	4.5	6	5.49	< 0.5	10	128	54
171863	205 294	< 5	14	1.2	190	< 0.2	2.99	60	3.5	6	3.11	0.5	19	253	47
171864	205 294	< 5	2	0.2	60	< 0.2	7.22	160	5.5	2	1.09	< 0.5	3	89	15
171865	205 294	< 5	1	0.2	10	< 0.2	7.59	3390	5.0	2	1.10	< 0.5	4	86	7
171866	205 294	< 5	4	0.6	300	< 0.2	5.18	250	5.0	< 2	2.01	1.0	3	153	14
171867	205 294	< 5	12	0.8	320	< 0.2	2.02	50	5.0	< 2	5.87	8.0	10	306	46
171868	205 294	20	18	1.8	30	< 0.2	0.92	10	2.0	< 2	>25.0	< 0.5	< 1	62	57
171869	205 294	< 5	2	0.6	50	< 0.2	2.74	>10000	10.0	2	4.21	< 0.5	10	158	68
171870	205 294	< 5	4	0.6	10	< 0.2	0.87	80	10.0	6	3.89	< 0.5	< 1	46	19
171871	205 294	10	1	0.8	10	< 0.2	1.39	20	6.0	4	4.39	< 0.5	< 1	207	19
171872	205 294	< 5	1	0.6	10	< 0.2	0.58	150	14.5	8	1.14	< 0.5	< 1	47	12
171873	205 294	< 5	2	0.8	30	< 0.2	0.83	80	13.5	6	2.08	< 0.5	< 1	77	14
171874	205 294	10	1	0.2	30	< 0.2	2.58	40	6.0	8	3.90	< 0.5	8	141	64
171875	205 294	< 5	2	< 0.2	10	< 0.2	3.00	40	4.5	6	1.68	< 0.5	15	186	66
171876	205 294	10	14	0.8	70	< 0.2	2.94	60	4.0	< 2	4.54	< 0.5	14	146	91
171877	205 294	5	10	0.6	30	< 0.2	3.84	50	5.0	10	3.65	< 0.5	10	146	56
171878	205 294	< 5	4	0.4	30	< 0.2	3.38	40	4.5	6	1.20	< 0.5	8	149	70
171879	205 294	10	2	0.4	20	< 0.2	3.79	50	5.0	2	0.91	< 0.5	6	236	62
171880	205 294	< 5	1	0.2	10	< 0.2	3.95	1080	5.5	2	0.73	< 0.5	8	137	41
171881	205 294	< 5	1	0.4	10	< 0.2	2.57	170	3.5	6	3.04	< 0.5	10	171	74
171882	205 294	< 5	2	0.2	40	< 0.2	3.88	120	5.5	6	0.93	< 0.5	10	137	83
171883	205 294	< 5	1	< 0.2	30	< 0.2	3.02	490	4.5	6	0.60	1.5	11	209	73
171884	205 294	< 5	1	< 0.2	< 10	< 0.2	3.05	340	4.5	6	0.76	< 0.5	11	133	96
171885	205 294	55	24	1.4	40	< 0.2	2.14	20	4.0	6	4.72	< 0.5	18	126	178

CERTIFICATION:



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Page: 1 of 1 B
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CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171846	205 294	2.89	1.27	0.63	885	3	0.06	43	520	8	60	0.17	84	< 10	84
171847	205 294	8.50	0.47	0.97	5490	6	0.02	57	1000	6	394	0.13	157	< 10	76
171848	205 294	3.96	0.95	0.46	2130	42	0.01	85	1800	44	127	0.11	197	< 10	44
171849	205 294	9.07	0.12	1.07	9620	12	0.02	57	1350	24	553	0.07	120	< 10	254
171850	205 294	7.39	0.55	0.57	2460	6	0.06	14	1060	8	615	0.08	164	< 10	20
171851	205 294	11.25	0.26	0.45	2310	13	0.03	31	940	< 2	640	0.08	153	< 10	28
171852	205 294	18.95	0.04	1.16	>10000	29	0.01	34	730	< 2	291	0.05	63	< 10	42
171853	205 294	13.40	< 0.01	0.36	3180	10	< 0.01	6	700	< 2	243	< 0.01	58	< 10	22
171854	205 294	6.51	< 0.01	2.33	5730	13	< 0.01	14	1060	8	109	< 0.01	29	< 10	32
171855	205 294	17.60	< 0.01	0.56	4520	19	< 0.01	5	500	< 2	229	< 0.01	57	< 10	390
171856	205 294	10.05	0.01	0.59	6540	7	0.01	40	490	2	143	0.01	62	< 10	18
171857	205 294	16.30	< 0.01	0.57	5750	12	< 0.01	16	1240	< 2	139	0.04	123	< 10	38
171858	205 294	12.65	0.03	1.20	7280	9	< 0.01	9	1110	< 2	126	0.04	104	< 10	20
171859	205 294	7.52	0.02	1.27	5220	6	< 0.01	10	1640	4	90	0.05	126	< 10	44
171860	205 294	7.06	0.96	0.87	4560	5	0.02	42	1200	164	80	0.11	233	< 10	562
171861	205 294	5.07	1.03	0.62	4200	5	0.02	47	1670	88	88	0.11	228	< 10	130
171862	205 294	4.22	1.10	0.62	3080	4	0.03	27	1220	124	77	0.09	206	< 10	22
171863	205 294	3.04	1.34	0.68	1795	3	0.05	52	890	104	37	0.11	182	< 10	198
171864	205 294	2.93	3.35	1.03	445	5	0.16	10	220	28	20	0.14	40	< 10	216
171865	205 294	2.13	3.52	1.03	335	3	0.15	4	180	10	22	0.14	6	< 10	44
171866	205 294	2.47	2.15	0.85	825	3	0.29	10	190	68	52	0.10	40	< 10	832
171867	205 294	5.09	0.33	0.57	2540	6	0.45	31	1920	190	157	0.13	207	20	2170
171868	205 294	8.08	0.13	0.37	4880	7	0.13	10	540	116	440	0.03	71	50	54
171869	205 294	3.90	0.70	0.48	2630	5	0.04	24	970	24	175	0.13	99	10	154
171870	205 294	16.95	0.02	0.51	2930	10	0.01	5	720	6	85	0.03	91	80	108
171871	205 294	8.69	0.03	0.32	1800	8	0.01	11	900	28	97	0.05	61	30	98
171872	205 294	17.75	0.03	0.24	1440	10	0.01	3	470	< 2	160	0.01	75	80	22
171873	205 294	17.15	0.04	0.29	1680	12	0.01	8	620	4	136	0.03	82	80	160
171874	205 294	6.37	0.90	0.53	2540	5	0.04	30	1380	106	85	0.11	197	30	134
171875	205 294	6.02	1.51	0.44	1160	3	0.04	38	640	72	21	0.10	177	20	26
171876	205 294	3.46	1.45	0.35	2450	3	0.05	23	660	30	71	0.11	127	10	482
171877	205 294	3.61	1.96	0.45	2450	5	0.08	19	340	30	48	0.15	122	10	56
171878	205 294	4.89	1.69	0.50	1715	5	0.07	24	220	20	20	0.12	117	10	22
171879	205 294	4.32	1.88	0.49	1280	4	0.08	19	200	18	16	0.14	136	10	20
171880	205 294	2.56	1.97	0.46	635	1	0.10	22	350	2	16	0.17	129	< 10	24
171881	205 294	10.10	1.02	1.28	4370	6	0.04	27	140	4	56	0.10	62	50	48
171882	205 294	2.97	1.96	0.47	1100	2	0.09	25	340	30	17	0.15	139	< 10	190
171883	205 294	1.56	1.54	0.32	605	1	0.07	21	440	6	12	0.13	151	< 10	222
171884	205 294	1.73	1.60	0.33	760	1	0.06	21	510	16	12	0.13	160	< 10	20
171885	205 294	10.25	1.05	0.57	3470	7	0.06	31	450	350	52	0.07	139	50	232

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 2 A
 Total Pages: 5
 Certificate Date: 22-OCT-96
 Invoice No.: I9635276
 P.O. Number: 6410
 Account: GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171886	205 294	< 5	6	< 0.2	20	< 0.2	3.27	620	5.0	< 2	0.64	< 0.5	9	192	61
171887	205 294	< 5	1	0.2	50	< 0.2	3.01	80	5.5	2	2.31	< 0.5	9	180	106
171888	205 294	10	2	0.6	1580	< 0.2	1.56	20	5.0	12	10.70	13.0	5	91	58
171889	205 294	10	44	2.2	120	< 0.2	0.62	10	4.0	24	13.15	< 0.5	1	60	14
171890	205 294	20	22	1.2	20	< 0.2	0.47	10	3.5	32	10.95	< 0.5	2	76	30
171891	205 294	< 5	2	0.6	960	< 0.2	1.19	40	4.0	14	8.41	17.0	9	154	51
171892	205 294	< 5	2	0.8	90	< 0.2	2.80	50	8.5	10	2.03	1.0	12	140	69
171893	205 294	< 5	1	0.2	10	< 0.2	3.27	150	11.0	6	2.64	< 0.5	12	155	33
171894	205 294	20	26	0.8	100	< 0.2	1.51	30	6.5	< 2	13.80	< 0.5	< 1	132	36
171895	205 294	< 5	36	1.0	10	< 0.2	0.52	10	3.5	20	14.10	< 0.5	1	44	14
171896	205 294	< 5	34	1.4	10	< 0.2	0.42	10	3.5	< 2	>25.0	< 0.5	< 1	13	11
171897	205 294	< 5	80	1.4	30	1.8	1.25	< 10	8.5	< 2	2.21	< 0.5	< 1	195	104
171898	205 294	< 5	16	0.6	10	0.6	0.57	10	2.5	< 2	>25.0	< 0.5	1	81	40
171899	205 294	< 5	84	1.6	50	1.4	1.34	< 10	6.5	< 2	0.81	< 0.5	< 1	181	31
171900	205 294	< 5	16	0.6	10	0.4	0.69	10	3.0	10	15.05	< 0.5	< 1	35	24
171901	205 294	< 5	24	3.4	< 10	0.2	1.07	10	6.0	16	14.20	< 0.5	1	59	17
171902	205 294	< 5	8	2.4	< 10	< 0.2	0.52	30	3.0	< 2	>25.0	< 0.5	3	24	15
171903	205 294	< 5	8	3.6	10	0.2	0.44	20	3.0	< 2	>25.0	< 0.5	4	35	8
171904	205 294	< 5	1	1.4	10	0.2	0.66	20	3.5	2	15.00	< 0.5	< 1	74	26
171905	205 294	20	32	4.0	40	0.2	0.57	20	3.5	20	17.80	< 0.5	2	31	11
171906	205 294	< 5	4	1.0	110	< 0.2	3.86	100	11.5	< 2	2.61	2.5	7	157	40
171907	205 294	< 5	1	1.6	880	0.4	1.53	30	5.0	< 2	16.00	9.0	3	85	35
171908	205 294	< 5	1	0.6	90	< 0.2	1.11	30	3.5	< 2	12.35	< 0.5	4	55	43
171909	205 294	< 5	26	3.4	< 10	< 0.2	0.62	30	3.0	< 2	>25.0	< 0.5	5	31	15
171910	205 294	< 5	14	2.0	30	< 0.2	0.28	40	1.5	< 2	>25.0	< 0.5	4	29	14
171911	205 294	15	26	3.8	10	< 0.2	0.49	30	4.0	< 2	>25.0	< 0.5	4	< 1	14
171912	205 294	45	10	4.6	140	0.2	1.43	20	8.0	2	14.90	0.5	5	61	36
171913	205 294	10	1	1.2	270	< 0.2	2.25	50	3.0	6	4.16	< 0.5	6	77	52
171914	205 294	< 5	4	0.6	240	< 0.2	1.93	110	3.5	8	3.30	< 0.5	3	87	37
171915	205 294	< 5	2	2.2	330	< 0.2	1.40	30	4.0	2	9.63	2.0	4	86	24
171916	205 294	< 5	1	0.2	60	< 0.2	0.62	110	2.0	< 2	>25.0	< 0.5	2	36	17
171917	205 294	< 5	2	0.4	40	0.2	3.46	100	9.5	4	1.48	< 0.5	11	114	88
171918	205 294	< 5	10	< 0.2	230	< 0.2	2.67	300	3.0	4	1.49	0.5	4	108	45
171919	205 294	< 5	1	0.4	220	< 0.2	1.86	110	3.5	< 2	10.05	1.0	5	83	51
171920	205 294	< 5	12	0.6	430	0.4	1.48	80	2.5	6	2.62	2.0	5	65	47
171921	205 294	< 5	4	< 0.2	50	< 0.2	2.52	430	2.5	2	0.43	< 0.5	6	70	46
171922	205 294	25	1	0.2	< 10	< 0.2	1.66	130	3.5	< 2	1.39	< 0.5	< 1	137	46
171923	205 294	< 5	2	< 0.2	10	< 0.2	2.68	1060	2.0	< 2	0.83	< 0.5	1	104	14
171924	205 294	< 5	10	< 0.2	10	< 0.2	3.10	3470	2.0	2	0.36	< 0.5	14	84	33
171925	205 294	< 5	1	< 0.2	< 10	< 0.2	2.99	5690	2.0	< 2	2.21	< 0.5	5	114	23

CERTIFICATION:

Hank Bond



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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 British Columbia, Canada V7J 2C1
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to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
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 V7X 1C4

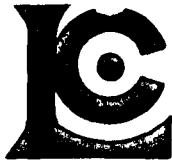
Page: 13 A
 Total Pages: 5
 Certificate Date: 22-OCT-96
 Invoice No.: 196352/6
 P.O. Number: 6410
 Account: GPW

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171926	205 294	< 5	2	< 0.2	10	< 0.2	3.62	4970	2.0	6	0.44	< 0.5	5	140	52
171927	205 294	< 5	1	< 0.2	10	< 0.2	2.69	3360	2.5	< 2	2.50	< 0.5	4	130	25
171928	205 294	< 5	8	< 0.2	< 10	< 0.2	4.58	8270	2.5	2	0.54	< 0.5	9	106	66
171929	205 294	< 5	34	0.2	10	< 0.2	1.71	2280	1.0	< 2	16.55	< 0.5	11	43	17
171930	205 294	< 5	2	0.2	40	< 0.2	3.84	3550	2.5	4	0.72	< 0.5	5	142	36
171931	205 294	< 5	4	< 0.2	10	< 0.2	3.67	8580	2.0	6	0.32	< 0.5	8	109	61
171932	205 294	< 5	10	0.4	60	< 0.2	3.01	510	2.5	4	0.55	< 0.5	13	217	58
171933	205 294	< 5	4	0.2	50	< 0.2	3.53	5170	3.0	< 2	0.36	< 0.5	8	154	56
171934	205 294	< 5	1	1.2	130	< 0.2	3.13	270	4.0	< 2	0.48	< 0.5	7	174	64
171935	205 294	< 5	2	0.4	40	< 0.2	3.40	8650	3.0	2	0.10	< 0.5	7	185	49
171936	205 294	25	1	1.4	120	0.8	3.97	120	5.0	6	0.32	< 0.5	8	160	474
171937	205 294	45	32	3.6	70	0.6	1.58	10	4.5	2	0.85	< 0.5	4	144	145
171938	205 294	< 5	4	< 0.2	120	< 0.2	2.53	530	4.0	< 2	1.10	1.0	4	156	48
171939	205 294	10	1	< 0.2	520	< 0.2	2.69	280	3.5	< 2	0.90	1.0	5	118	56
171940	205 294	15	12	3.2	630	< 0.2	2.33	20	4.5	< 2	2.95	1.0	4	172	46
171941	205 294	10	24	4.2	1200	< 0.2	1.31	40	3.5	< 2	14.15	4.5	3	96	30
171942	205 294	25	26	6.4	70	0.4	0.72	10	3.5	< 2	>25.0	< 0.5	4	87	40
171943	205 294	10	6	2.2	120	< 0.2	0.76	30	4.0	< 2	>25.0	< 0.5	3	18	18
171944	205 294	10	10	3.4	280	< 0.2	2.56	20	7.5	8	6.29	0.5	4	106	54
171945	205 294	40	56	10.5	50	< 0.2	2.56	< 10	16.0	6	3.43	< 0.5	6	112	46
171946	205 294	< 5	8	2.0	920	< 0.2	0.96	30	3.5	< 2	17.15	4.0	3	35	38
171947	205 294	< 5	4	1.8	80	< 0.2	1.26	40	4.5	< 2	17.85	< 0.5	3	85	21
171948	205 294	10	12	2.6	340	< 0.2	1.19	30	3.5	< 2	2.62	2.0	1	160	54
171949	205 294	< 5	6	1.6	150	< 0.2	2.11	40	5.0	< 2	2.60	< 0.5	3	142	44
171950	205 294	20	8	2.4	400	< 0.2	0.63	10	2.5	< 2	10.85	0.5	3	85	16
171951	205 294	< 5	2	0.4	30	< 0.2	0.07	80	0.5	< 2	>25.0	< 0.5	1	19	4
171952	205 294	< 5	6	1.0	220	< 0.2	0.11	30	0.5	< 2	>25.0	< 0.5	2	43	8
171953	205 294	< 5	1	< 0.2	630	< 0.2	2.22	190	4.0	6	1.20	1.0	4	113	54
171954	205 294	< 5	8	4.0	50	0.8	2.31	230	3.5	< 2	1.96	< 0.5	5	126	81
171955	205 294	< 5	24	0.6	170	0.2	2.46	90	4.5	< 2	1.91	< 0.5	5	125	62
171956	205 294	< 5	1	0.6	80	< 0.2	3.08	130	17.5	< 2	2.47	< 0.5	9	134	66
171957	205 294	< 5	74	0.6	60	< 0.2	1.57	200	8.0	< 2	5.83	< 0.5	8	120	53
171958	205 294	< 5	6	1.8	120	< 0.2	1.81	130	4.0	< 2	5.73	< 0.5	3	154	51
171959	205 294	< 5	30	1.0	70	< 0.2	2.14	500	4.0	< 2	9.24	< 0.5	5	123	68
171960	205 294	10	6	0.4	70	< 0.2	3.30	330	7.0	< 2	2.69	< 0.5	4	150	42
171961	205 294	35	2	0.6	100	< 0.2	2.03	240	3.5	< 2	7.05	< 0.5	4	144	64
171962	205 294	< 5	6	0.4	140	< 0.2	2.91	90	4.5	< 2	3.95	< 0.5	8	169	93
171963	205 294	< 5	4	< 0.2	20	< 0.2	2.06	450	2.5	< 2	8.14	< 0.5	4	127	70
171964	205 294	75	4	< 0.2	20	< 0.2	3.31	800	4.0	< 2	4.19	< 0.5	3	181	57
171965	205 294	25	1	< 0.2	10	< 0.2	1.87	410	2.0	< 2	8.18	< 0.5	3	153	60

CERTIFICATION: _____



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
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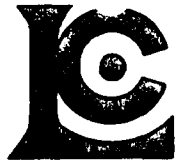
Page: 1 of 3-B
 Total Pages: 5
 Certificate Date: 22 OCT-96
 Invoice No.: 19635276
 P.O. Number: 6410
 Account: GPW

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171926	205 294	4.15	1.57	0.45	630	9	0.12	16	270	< 2	76	0.16	93	10	22
171927	205 294	6.63	1.13	0.35	1270	8	0.07	13	220	< 2	309	0.13	86	20	22
171928	205 294	1.83	2.10	0.43	130	10	0.09	27	390	10	59	0.24	134	< 10	28
171929	205 294	1.51	0.56	0.31	4320	2	0.01	46	530	24	1185	0.08	46	< 10	136
171930	205 294	1.93	1.86	0.45	335	3	0.08	16	350	12	67	0.18	110	< 10	190
171931	205 294	1.48	1.72	0.44	160	3	0.07	18	180	12	33	0.16	97	< 10	36
171932	205 294	1.75	1.45	0.46	925	13	0.07	70	110	8	62	0.13	90	< 10	98
171933	205 294	1.32	1.69	0.45	620	7	0.07	39	120	8	42	0.17	105	< 10	92
171934	205 294	1.75	1.45	0.46	390	11	0.07	62	270	8	60	0.13	102	< 10	190
171935	205 294	1.09	1.68	0.38	65	3	0.08	19	140	12	16	0.14	89	< 10	24
171936	205 294	5.38	0.88	0.51	475	22	0.08	22	270	58	26	0.17	135	10	248
171937	205 294	17.95	0.01	0.46	405	12	< 0.01	13	260	< 2	79	0.05	122	80	92
171938	205 294	1.32	0.79	0.31	190	5	0.03	15	100	54	123	0.09	78	< 10	312
171939	205 294	0.78	0.95	0.27	90	14	0.06	20	110	6	115	0.09	101	< 10	1395
171940	205 294	4.30	0.86	0.27	330	22	0.01	16	830	216	75	0.08	113	10	1720
171941	205 294	1.97	0.66	0.23	1600	16	0.01	19	550	200	197	0.05	93	< 10	2830
171942	205 294	5.95	0.43	0.17	1690	31	0.01	10	590	1040	126	0.03	89	50	102
171943	205 294	3.35	0.33	0.20	1835	17	< 0.01	4	270	350	90	0.03	80	< 10	462
171944	205 294	3.51	1.39	0.34	605	9	0.03	12	330	152	28	0.09	139	< 10	898
171945	205 294	16.85	1.24	0.27	350	38	0.06	11	50	240	18	0.09	184	70	24
171946	205 294	7.73	0.32	0.29	2080	36	0.01	7	50	780	104	0.03	84	10	2760
171947	205 294	5.70	0.41	0.49	2340	26	0.01	7	150	220	112	0.06	104	10	164
171948	205 294	3.84	0.53	0.19	305	15	< 0.01	8	340	300	16	0.05	114	< 10	1140
171949	205 294	5.07	0.96	0.38	765	11	0.01	10	70	64	25	0.09	146	< 10	438
171950	205 294	7.49	0.05	0.38	1870	13	< 0.01	6	150	30	66	0.02	46	10	848
171951	205 294	1.42	0.03	0.12	2550	5	< 0.01	2	830	84	182	< 0.01	20	< 10	36
171952	205 294	2.94	0.05	0.13	1765	9	< 0.01	5	750	184	217	< 0.01	26	< 10	332
171953	205 294	1.23	0.65	0.25	135	7	0.01	16	160	14	50	0.06	142	< 10	580
171954	205 294	0.96	0.76	0.21	185	4	0.01	21	340	8	89	0.08	164	< 10	56
171955	205 294	1.65	1.13	0.21	265	7	0.03	15	360	70	22	0.08	128	< 10	170
171956	205 294	7.45	0.87	0.33	680	7	0.04	14	430	32	22	0.12	125	< 10	46
171957	205 294	9.19	0.18	0.35	1515	10	< 0.01	15	330	48	37	0.05	90	10	32
171958	205 294	2.98	0.54	0.25	935	5	0.01	11	200	60	38	0.06	96	< 10	228
171959	205 294	4.25	0.59	0.57	1500	5	0.02	12	320	62	126	0.07	91	10	24
171960	205 294	4.78	1.08	0.27	370	6	0.06	11	470	16	25	0.09	117	10	18
171961	205 294	3.40	0.78	0.27	615	7	0.03	16	840	62	78	0.05	100	10	26
171962	205 294	3.75	1.40	0.44	910	5	0.04	28	520	96	53	0.10	151	< 10	56
171963	205 294	4.74	0.71	0.49	1985	3	0.03	11	660	16	105	0.06	91	10	42
171964	205 294	4.96	1.28	0.54	1435	4	0.05	9	650	4	68	0.10	136	10	50
171965	205 294	5.15	0.62	0.51	2220	3	0.01	8	340	4	162	0.06	83	10	52

CERTIFICATION:



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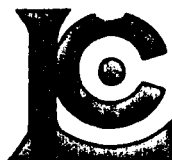
Page Number: 4 A
Total Pages: 5
Certificate Date: 22 OCT-96
Invoice No.: 19635276
P.O. Number: 6410
Account: GP W

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
171966	205 294	< 5	10	< 0.2	< 10	< 0.2	3.69	1080	5.0	< 2	0.86	< 0.5	8	156	104
171967	205 294	< 5	6	0.2	130	< 0.2	3.52	220	5.5	< 2	1.25	1.0	6	99	72
171968	205 294	80	2	< 0.2	170	< 0.2	2.49	70	4.0	< 2	1.85	< 0.5	7	148	78
171969	205 294	< 5	4	0.8	210	0.4	2.58	170	4.5	< 2	1.48	1.5	4	126	55
171970	205 294	10	2	0.6	190	0.4	2.44	200	3.5	< 2	2.40	6.0	3	170	52
171971	205 294	< 5	34	< 0.2	40	< 0.2	2.45	190	4.0	< 2	6.20	< 0.5	8	102	63
171972	205 294	< 5	178	< 0.2	620	< 0.2	2.74	60	5.0	< 2	2.18	29.0	7	195	104
171973	205 294	35	12	1.2	790	0.4	3.32	40	8.5	4	2.33	13.5	8	113	70
171974	205 294	25	10	2.8	480	< 0.2	2.00	40	6.5	< 2	9.26	6.5	4	83	52
171975	205 294	40	114	5.6	70	1.8	3.20	20	8.0	2	0.51	< 0.5	18	98	69
171976	205 294	10	4	< 0.2	10	< 0.2	3.80	410	6.0	< 2	0.51	< 0.5	16	76	142
171977	205 294	< 5	4	< 0.2	10	< 0.2	4.31	1550	6.5	2	0.53	< 0.5	11	76	41
171978	205 294	< 5	4	< 0.2	10	< 0.2	4.51	860	7.0	2	0.60	< 0.5	14	91	75
171979	205 294	15	12	1.8	490	0.2	2.90	50	7.0	2	4.46	5.5	6	137	52
171980	205 294	25	16	2.4	800	0.6	2.89	30	7.0	2	3.38	13.0	6	146	57
171981	205 294	20	10	1.8	140	0.2	2.50	30	7.5	< 2	7.90	2.0	5	81	45
171982	205 294	15	28	1.4	3580	0.4	3.17	170	8.0	2	3.61	45.5	9	120	69
171983	205 294	5	8	1.0	340	0.4	3.68	60	7.0	2	4.43	4.0	9	95	70
171984	205 294	< 5	1	< 0.2	10	< 0.2	4.06	450	6.0	< 2	1.30	< 0.5	7	88	60
171985	205 294	< 5	2	< 0.2	< 10	< 0.2	4.24	280	6.0	6	0.65	< 0.5	7	80	27
171986	205 294	< 5	2	< 0.2	< 10	< 0.2	4.03	130	6.0	2	0.36	< 0.5	13	86	76
171987	205 294	< 5	1	0.2	< 10	< 0.2	4.32	740	6.5	2	0.36	< 0.5	10	114	51
171988	205 294	< 5	1	< 0.2	10	< 0.2	4.42	150	6.5	4	0.79	< 0.5	11	119	75
171989	205 294	< 5	2	< 0.2	10	< 0.2	4.94	290	7.0	2	0.57	< 0.5	11	181	63
171990	205 294	< 5	1	< 0.2	< 10	< 0.2	4.25	200	6.5	< 2	0.45	< 0.5	12	107	71
171991	205 294	< 5	2	0.6	3310	< 0.2	2.07	100	3.0	2	0.54	58.5	10	186	68
171992	205 294	< 5	1	2.8	1870	< 0.2	2.01	70	3.0	2	0.28	39.0	10	190	66
171993	205 294	10	4	3.8	5850	0.4	1.96	40	3.0	2	0.65	51.0	6	181	56
171994	205 294	30	22	5.8	6760	1.2	2.90	20	5.0	< 2	0.71	60.0	9	147	71
171995	205 294	10	6	3.0	220	< 0.2	3.37	60	5.0	4	0.21	6.5	8	196	67
171996	205 294	5	4	2.4	70	< 0.2	3.42	80	5.0	< 2	0.17	2.5	7	196	50
171997	205 294	< 5	46	3.8	190	0.4	5.32	60	6.0	2	0.55	13.0	8	147	73
171998	205 294	10	218	5.4	270	0.4	9.21	50	7.5	2	4.11	18.0	15	274	195
171999	205 294	< 5	258	3.0	50	< 0.2	4.97	50	5.0	2	3.32	3.0	10	148	28
172000	205 294	< 5	16	< 0.2	10	< 0.2	7.80	160	4.5	2	5.87	< 0.5	26	358	52
172001	205 294	< 5	2	1.0	470	0.6	6.50	100	6.5	< 2	2.21	13.5	7	96	38
172002	205 294	< 5	2	1.4	30	< 0.2	7.05	130	5.0	< 2	6.49	< 0.5	14	279	26
172003	205 294	< 5	1	0.6	40	< 0.2	8.14	80	4.5	< 2	7.81	< 0.5	29	354	55
172004	205 294	< 5	50	1.0	10	< 0.2	6.76	4410	3.0	< 2	6.84	< 0.5	27	279	40
172005	205 294	< 5	2	0.6	30	< 0.2	2.37	510	1.5	< 2	1.31	< 0.5	5	111	52

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

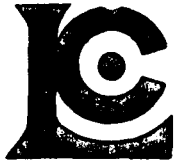
Page: 4 B
 Total Pages: 5
 Certificate Date: 22 OCT-96
 Invoice No.: 19635276
 P.O. Number: 6410
 Account: GP W

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
171966	205 294	1.69	1.72	0.31	180	3	0.08	23	480	32	97	0.13	171	< 10	30
171967	205 294	1.73	1.74	0.33	205	2	0.08	27	630	52	30	0.14	148	< 10	812
171968	205 294	3.52	1.06	0.30	425	7	0.04	27	850	100	26	0.07	121	< 10	274
171969	205 294	1.36	1.24	0.27	135	4	0.05	18	220	96	26	0.08	152	< 10	758
171970	205 294	2.85	0.92	0.30	380	5	0.03	15	650	62	44	0.07	129	< 10	1815
171971	205 294	3.09	0.95	0.30	730	9	0.03	27	1210	60	117	0.08	110	< 10	126
171972	205 294	2.56	1.34	0.28	315	4	0.04	52	480	86	37	0.12	164	< 10	5160
171973	205 294	5.67	1.61	0.47	980	8	0.05	53	650	600	44	0.11	194	< 10	3990
171974	205 294	6.69	0.89	0.39	2080	7	0.03	18	700	216	196	0.07	158	< 10	1615
171975	205 294	15.70	1.47	0.32	260	17	0.07	72	830	1560	9	0.09	267	< 10	224
171976	205 294	1.46	1.88	0.39	370	2	0.07	39	270	34	13	0.18	187	< 10	40
171977	205 294	1.36	2.12	0.45	530	1	0.09	21	250	2	15	0.16	157	< 10	26
171978	205 294	1.46	2.23	0.50	640	2	0.10	33	290	14	18	0.18	170	< 10	30
171979	205 294	4.23	1.38	0.44	1070	7	0.04	37	640	98	99	0.12	175	< 10	1255
171980	205 294	4.78	1.33	0.40	815	8	0.04	30	810	110	64	0.12	190	< 10	2310
171981	205 294	5.30	1.09	0.44	1830	7	0.01	22	540	102	179	0.10	152	< 10	448
171982	205 294	5.18	1.46	0.45	875	8	0.04	53	770	144	75	0.13	192	< 10	9600
171983	205 294	3.01	1.83	0.46	695	5	0.07	32	660	72	122	0.14	162	< 10	890
171984	205 294	1.95	1.99	0.54	495	4	0.08	18	310	2	41	0.17	123	< 10	62
171985	205 294	2.05	2.08	0.55	405	2	0.09	22	280	10	25	0.17	127	< 10	38
171986	205 294	2.61	2.05	0.47	255	3	0.09	35	270	24	14	0.14	134	< 10	32
171987	205 294	1.97	2.28	0.53	410	1	0.09	28	240	12	17	0.18	150	< 10	36
171988	205 294	2.59	2.26	0.53	575	3	0.10	36	360	22	25	0.16	142	< 10	28
171989	205 294	1.76	2.60	0.56	370	1	0.10	33	260	< 2	22	0.19	160	< 10	28
171990	205 294	1.83	2.26	0.49	440	1	0.08	32	240	10	18	0.15	142	< 10	24
171991	205 294	1.54	1.08	0.25	165	1	0.03	27	990	18	15	0.08	122	< 10	4990
171992	205 294	1.71	1.07	0.24	90	1	0.03	29	680	24	10	0.08	126	< 10	3270
171993	205 294	2.21	1.04	0.24	125	1	0.02	23	490	72	22	0.08	106	< 10	8910
171994	205 294	5.83	1.54	0.36	140	3	0.04	29	480	230	24	0.11	158	< 10	>10000
171995	205 294	2.63	1.82	0.40	100	3	0.07	42	300	22	10	0.14	206	< 10	940
171996	205 294	2.02	1.79	0.39	110	3	0.08	38	280	8	10	0.14	211	< 10	380
171997	205 294	2.62	2.75	0.57	165	9	0.12	46	390	38	15	0.20	287	< 10	2110
171998	205 294	4.69	4.22	1.46	1155	5	0.23	41	2070	138	105	0.60	238	< 10	2760
171999	205 294	3.53	2.29	1.34	910	13	0.07	47	440	52	149	0.15	193	< 10	514
172000	205 294	4.03	3.53	1.32	1010	2	0.18	54	760	6	219	0.30	158	< 10	158
172001	205 294	2.92	3.33	0.85	505	10	0.12	30	330	292	93	0.18	129	< 10	2410
172002	205 294	3.81	3.47	0.92	1025	3	0.17	33	1280	8	336	0.46	144	< 10	80
172003	205 294	4.05	3.69	0.90	1065	3	0.55	63	700	56	355	0.27	175	< 10	102
172004	205 294	4.09	3.42	2.64	1045	4	0.20	66	300	6	351	0.23	130	< 10	154
172005	205 294	1.11	1.04	0.37	210	1	0.02	36	300	< 2	36	0.09	82	< 10	42

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE REGIONAL
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

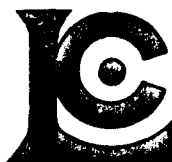
Page: 5-A
 Total Pages: 5
 Certificate Date: 22-OCT-96
 Invoice No.: 19635276
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 Account: GPW

CERTIFICATE OF ANALYSIS

A9635276

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172006	205 294	5	8	3.8	120	0.8	4.20	70	2.5	< 2	2.24	< 0.5	8	136	50
172007	205 294	< 5	2	0.4	50	< 0.2	4.18	130	2.5	< 2	2.58	< 0.5	10	207	80
172008	205 294	< 5	1	< 0.2	60	< 0.2	7.62	1560	6.5	2	2.27	< 0.5	4	43	12
172009	205 294	< 5	1	< 0.2	50	< 0.2	7.28	550	6.5	< 2	1.89	< 0.5	3	44	15
172010	205 294	< 5	10	3.0	190	0.6	5.37	100	3.5	< 2	1.63	3.0	6	143	33
172011	205 294	25	26	4.8	1190	2.2	4.67	90	2.0	2	1.28	27.0	5	122	48
172012	205 294	< 5	8	2.2	70	0.6	3.49	110	1.5	< 2	1.42	< 0.5	8	136	60
172013	205 294	< 5	26	1.8	40	0.4	4.73	90	2.0	< 2	2.06	< 0.5	10	149	108
172014	205 294	15	66	6.4	240	1.4	3.90	280	2.0	< 2	1.98	4.5	6	158	49
172015	205 294	30	56	10.0	520	3.0	5.81	70	3.0	< 2	1.59	11.0	8	186	66
172016	205 294	< 5	12	2.6	100	0.4	3.45	120	1.5	2	3.57	< 0.5	12	147	78
172017	205 294	25	20	5.8	220	1.0	5.95	80	3.5	2	1.23	2.5	7	152	39
172018	205 294	50	64	18.0	1640	21.2	5.41	60	2.5	2	1.43	30.5	7	166	192
172019	205 294	60	94	17.0	1290	7.2	4.50	50	2.5	2	1.52	25.5	6	141	89
172020	205 294	< 5	2	1.6	50	0.2	3.55	600	1.5	2	1.39	< 0.5	7	105	55
172021	205 294	< 5	1	0.8	30	0.4	2.74	340	0.5	2	3.05	< 0.5	6	140	34
172022	205 294	< 5	1	1.0	50	0.6	3.27	250	1.0	2	2.25	< 0.5	7	123	44
172023	205 294	< 5	1	0.4	30	0.4	3.09	280	1.0	4	2.07	< 0.5	7	111	46
172024	205 294	< 5	2	2.0	50	0.4	2.75	180	0.5	2	1.76	< 0.5	7	88	50
172025	205 294	< 5	1	3.4	70	0.6	3.34	110	0.5	4	1.76	< 0.5	8	109	54
172026	205 294	10	1	3.6	460	4.2	6.29	80	2.0	2	2.90	7.5	15	198	72
172027	205 294	20	6	4.8	260	3.2	5.41	110	2.5	6	3.90	1.5	10	96	29
172028	205 294	15	54	7.6	710	2.8	6.46	40	3.0	2	3.76	6.0	15	243	67
172029	205 294	15	36	6.6	320	1.0	2.69	30	2.0	6	0.57	< 0.5	6	172	41
172030	205 294	15	44	9.0	600	1.0	2.83	20	2.5	< 2	0.74	2.0	4	188	39
172031	205 294	25	42	5.6	380	1.0	2.52	30	2.0	< 2	0.42	0.5	5	231	44
172032	205 294	15	8	2.8	60	0.2	4.11	100	2.0	< 2	0.79	< 0.5	10	171	57
172033	205 294	10	10	4.0	50	0.6	4.27	120	2.0	2	1.02	< 0.5	13	171	50
172034	205 294	5	6	3.6	90	1.2	3.63	100	1.5	< 2	1.38	1.0	9	179	49
172035	205 294	< 5	1	3.0	40	1.0	3.51	120	1.5	< 2	1.36	< 0.5	10	147	55
172036	205 294	20	4	4.8	10	0.8	3.79	100	1.5	2	1.65	< 0.5	18	134	61
172037	205 294	50	28	7.4	1030	2.4	2.83	30	2.0	2	0.48	26.5	9	192	51
172038	205 294	145	92	26	1390	25.6	4.28	40	3.5	2	0.69	23.5	5	257	241
172039	205 294	35	50	8.2	410	2.0	3.59	50	1.5	2	0.48	10.5	6	213	99
172040	205 294	10	2	0.6	60	0.2	2.83	530	0.5	< 2	0.64	0.5	5	163	84
172041	205 294	45	1	3.8	160	0.2	4.08	170	1.5	< 2	3.25	0.5	7	218	243
172042	205 294	< 5	1	< 0.2	10	< 0.2	0.32	250	< 0.5	< 2	0.89	< 0.5	1	352	7
172043	205 294	< 5	1	2.2	40	< 0.2	6.40	120	2.0	< 2	8.37	0.5	11	173	132
172044	205 294	10	30	9.8	180	1.6	4.11	70	1.5	< 2	1.18	8.5	9	287	121
172045	205 294	15	12	5.6	130	0.6	3.44	40	0.5	< 2	4.08	1.0	9	205	106

CERTIFICATION: _____



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Page: 1 of 5-B
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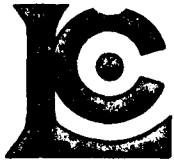
Project: WOLVERINE REGIONAL
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CERTIFICATE OF ANALYSIS A9635276

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172006	205 294	2.46	2.02	0.80	405	10	0.06	37	720	32	91	0.21	157	< 10	198
172007	205 294	2.99	2.02	1.09	415	3	0.07	49	540	6	111	0.23	118	< 10	134
172008	205 294	2.81	3.92	1.33	510	2	0.16	7	270	16	112	0.22	20	< 10	278
172009	205 294	2.54	3.65	1.20	455	3	0.15	10	180	12	95	0.18	20	< 10	238
172010	205 294	2.44	2.57	0.87	370	6	0.12	29	850	94	64	0.26	144	< 10	694
172011	205 294	1.85	2.16	0.66	335	7	0.11	26	570	472	45	0.16	171	< 10	3950
172012	205 294	1.85	1.57	0.68	550	1	0.08	42	850	6	76	0.15	131	< 10	156
172013	205 294	3.01	2.03	1.13	995	2	0.10	65	200	8	112	0.18	180	10	104
172014	205 294	2.42	1.81	0.60	500	5	0.07	32	1100	100	60	0.16	177	< 10	682
172015	205 294	2.77	2.70	0.89	450	13	0.12	45	980	192	73	0.27	270	< 10	1300
172016	205 294	2.11	1.54	1.00	3590	1	0.05	42	510	24	143	0.15	123	< 10	76
172017	205 294	2.30	2.66	0.85	390	7	0.13	41	1290	28	75	0.21	179	< 10	364
172018	205 294	2.70	2.43	0.80	410	16	0.12	48	950	1500	76	0.24	334	10	3570
172019	205 294	2.65	2.03	0.63	260	32	0.10	68	1160	340	52	0.13	528	10	2630
172020	205 294	1.55	1.55	0.80	590	1	0.06	20	230	10	115	0.17	108	< 10	82
172021	205 294	2.36	1.14	1.21	1185	1	0.04	41	160	4	226	0.12	96	< 10	58
172022	205 294	2.38	1.41	1.10	1070	1	0.03	50	220	8	272	0.14	123	< 10	96
172023	205 294	2.54	1.31	1.03	1060	1	0.04	31	200	4	229	0.14	109	< 10	64
172024	205 294	2.20	1.00	0.77	790	1	0.04	21	280	2	183	0.13	104	< 10	62
172025	205 294	2.52	1.36	0.77	720	1	0.05	30	310	6	160	0.14	102	< 10	78
172026	205 294	4.09	2.80	1.25	475	7	0.11	66	1380	110	203	0.38	196	10	858
172027	205 294	3.22	2.38	1.72	645	4	0.11	43	1090	50	262	0.25	122	10	366
172028	205 294	3.79	2.88	1.09	575	4	0.13	65	1470	92	268	0.53	149	10	812
172029	205 294	3.37	1.18	0.33	150	4	0.06	45	460	14	25	0.12	142	< 10	74
172030	205 294	4.28	1.24	0.26	105	8	0.05	43	1130	14	31	0.10	157	10	274
172031	205 294	2.99	1.13	0.25	80	5	0.06	50	670	14	23	0.11	141	< 10	110
172032	205 294	1.96	1.80	0.59	365	4	0.09	44	1060	10	70	0.19	191	< 10	120
172033	205 294	1.89	1.90	0.63	390	2	0.10	41	450	4	71	0.20	179	< 10	74
172034	205 294	2.10	1.64	0.62	725	6	0.07	46	1140	16	122	0.17	220	< 10	230
172035	205 294	2.25	1.57	0.71	1340	1	0.06	44	550	10	137	0.15	157	< 10	82
172036	205 294	2.44	1.68	0.83	1870	1	0.07	55	600	14	167	0.17	136	< 10	76
172037	205 294	3.74	1.27	0.37	330	5	0.06	48	700	28	43	0.12	138	10	1905
172038	205 294	2.60	1.97	0.36	105	24	0.11	72	1730	324	58	0.13	673	< 10	1910
172039	205 294	2.18	1.29	0.34	65	12	0.09	54	1290	56	35	0.12	341	< 10	752
172040	205 294	0.85	1.18	0.51	100	1	0.06	19	390	2	43	0.14	62	< 10	50
172041	205 294	2.06	1.71	1.19	325	3	0.05	46	3800	2	175	0.18	153	< 10	218
172042	205 294	0.44	0.11	0.19	130	< 1	< 0.01	6	100	4	13	< 0.01	10	< 10	8
172043	205 294	3.35	2.43	2.00	730	4	0.14	39	2360	< 2	254	0.26	163	10	118
172044	205 294	1.77	1.70	0.78	115	17	0.08	90	2510	12	164	0.15	451	< 10	806
172045	205 294	2.67	1.43	0.71	210	6	0.04	44	1140	14	142	0.12	154	< 10	132

CERTIFICATION:

Hart Biedler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 6 0 4

BILLING INFORMATION

Date: 1-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9635604

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
11	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1356.52

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
2	3222 - 5 gal. pail and lid	7.00*		14.00

	Total Cost \$	1405.52
	Client Discount (25% of \$1391.52)\$	347.88
	Net Cost \$	1057.64
	(Reg# R100938885) GST \$	<u>74.03</u>
	TOTAL PAYABLE (CDN) \$	1131.67

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Page #: 1-A
 Tot QC Pg: 1
 Date: 01-NOV-96
 Invoice #: 19635604
 P.O. #: 6406
 GPW

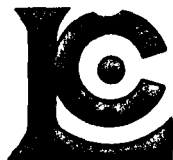
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9635604

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH	Ag g/t RUSH FA	Cu %	Pb %	ZnBa (XRFS) % ppm	Spec Gr S.G.	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	0.008 0.008	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
CD-1 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	0.68 0.67	3.50 3.58	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JV-1 CHEMEX MEAN	std1 ---	1 ---	0.62 0.62	176 175	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	0.85 0.83	0.45 0.45	0.95 0.95	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SILICA CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	2.62 2.62	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
SU-1A CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	3.0 4.3	5.55 5.72	300 285	< 10 < 10	< 20 < 20	3.20 3.50	< 10 < 10	380 364	270 266

CERTIFICATION: Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC Page #: 1-B
 Tot QC Pg: 1
 Date: 01-NOV-96
 Invoice #: 19635604
 P.O. #: 6406
 GPW

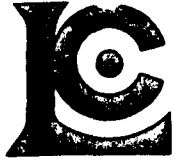
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

QC DATA OF CERTIFICATE A9635604

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	9260 9440	19.00 19.35	0.8 0.8	2.70 2.70	1000 961	< 10 < 10	1.40 1.38	11300 11050	0.010 0.007	230 221	0.30 0.29	120 115	380 191

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9635604

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635604

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

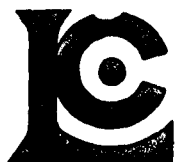
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 1-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	11	RUSH Assay ring approx 150 mesh
295	11	RUSH crush and split (0-3 Kg)
3202	11	Rock - save entire reject
290	11	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	11	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	11	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	11	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	11	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	11	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	11	Ba ppm	XRF	10	50000
444	11	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	11	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	11	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	11	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	11	Ag ppm: high grade 24 element	AAS	0.5	200
4031	11	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	11	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	11	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	11	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	11	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	11	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	11	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	11	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	11	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	11	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	11	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	11	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	11	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	11	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	11	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	11	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	11	Pb %: high grade 24 element	AAS	0.001	10.00
4047	11	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	11	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	11	V ppm: A22 ICP package	ICP-AES	10	50000
4050	11	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

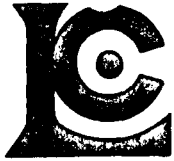
Page Number: 1-A
 Total Pages: 1
 Certificate Date: 01-NOV-96
 Invoice No.: 19635604
 P.O. Number: 6406
 Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9635604

SAMPLE	PREP CODE	Au g/t RUSHERUSH FA	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)		
175567	258 295	1.41	319	1.08	3.03	14.80	180	4.25	0.15	0.06	0.004 >200	0.25	100	< 10	< 20	0.05	1190	50	70
175568	258 295	1.20	239	0.92	2.26	10.70	730	4.40	0.32	0.05	0.002 >200	0.30	100	< 10	< 20	0.60	1010	60	80
175569	258 295	1.17	135	0.86	0.62	8.48	230	4.29	0.22	0.08	0.001 134.0	0.30	200	< 10	< 20	1.50	810	40	90
175570	258 295	1.30	165	0.94	1.24	8.71	440	4.16	0.30	0.07	0.002 164.0	0.30	300	< 10	< 20	5.40	760	40	30
175575	258 295	1.03	371	0.07	3.26	7.49	590	3.80	0.10	0.05	0.002 >200	0.35	400	< 10	< 20	1.10	510	< 10	90
175577	258 295	1.58	478	0.18	4.38	12.40	360	4.22	0.40	0.06	0.005 >200	0.30	300	< 10	< 20	0.05	880	< 10	70
175578	258 295	1.47	180	0.27	1.11	3.44	120	4.83	0.47	0.03	0.003 183.0	0.35	100	< 10	< 20	0.15	220	< 10	50
175579	258 295	1.30	304	0.49	2.21	7.17	110	4.61	0.26	0.03	0.002 >200	0.30	100	< 10	< 20	0.60	550	< 10	60
175580	258 295	1.44	409	1.20	1.60	6.66	70	4.65	0.39	0.07	0.002 >200	0.35	< 100	< 10	< 20	0.20	590	10	60
175581	258 295	0.96	228	0.63	1.29	7.94	50	4.63	0.57	0.04	0.002 >200	0.40	< 100	< 10	< 20	0.70	720	20	70
175582	258 295	1.10	210	0.36	1.52	9.75	70	4.45	0.25	0.05	0.002 >200	0.30	< 100	< 10	< 20	0.45	910	20	60

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-B
Total Pages : 1
Certificate Date: 01-NOV-96
Invoice No. : 19635604
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

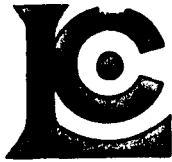
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9635604

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175567	258	295	10280	28.6	< 0.1	0.05	280	30	< 0.05	120	2.90	< 10	< 0.05	70	>100000
175568	258	295	8820	>30.0	< 0.1	0.05	380	40	< 0.05	100	2.20	10	< 0.05	130	96300
175569	258	295	8240	>30.0	< 0.1	0.05	430	60	< 0.05	110	0.586	30	< 0.05	60	78800
175570	258	295	9140	>30.0	< 0.1	0.05	1060	40	< 0.05	50	1.200	110	< 0.05	40	80500
175575	258	295	710	24.6	< 0.1	0.05	240	< 10	< 0.05	110	3.17	30	< 0.05	150	70600
175577	258	295	1780	27.3	< 0.1	< 0.05	240	80	< 0.05	90	4.30	< 10	< 0.05	90	>100000
175578	258	295	2730	>30.0	< 0.1	0.05	390	40	< 0.05	80	1.100	< 10	< 0.05	50	33300
175579	258	295	4970	>30.0	< 0.1	0.05	400	40	< 0.05	80	2.12	10	< 0.05	40	68400
175580	258	295	11380	>30.0	< 0.1	0.05	310	30	< 0.05	60	1.540	< 10	< 0.05	30	63400
175581	258	295	6110	>30.0	< 0.1	0.10	370	40	< 0.05	40	1.240	10	< 0.05	60	75400
175582	258	295	3600	>30.0	< 0.1	0.10	430	120	< 0.05	140	1.450	10	< 0.05	40	90300

CERTIFICATION:

Hank Buehler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 6 0 5

BILLING INFORMATION

Date: 28-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9635605

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	189.64

Total Cost \$	189.64
Client Discount (25%) \$	-47.41
Net Cost \$	142.23
(Reg# R100938885) GST \$	9.96
TOTAL PAYABLE (CDN) \$	152.19



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

TO: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9635605

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635605

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

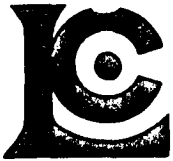
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 27-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	2	RUSH Geo ring to approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
285	2	ICP - HF digestion charge
287	2	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	2	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	2	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	2	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	2	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	2	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	2	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	2	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	2	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	2	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	2	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	2	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	2	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	2	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	2	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	2	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	2	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	2	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	2	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	2	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	2	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	2	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	2	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	2	Pb ppm: 24 element, rock & core	AAS	2	10000
582	2	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	2	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	2	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	2	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	2	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1
 Total Pages: 1
 Certificate Date: 27-OCT-96
 Invoice No.: 19635605
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9635605

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRF) Spec Gr % ppm	S.G.	As ppm	Sb ppm	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)		
			RUSH	RUSH							AAS										
175574	255	295	65	4.4	0.01	0.03	0.16	8350	2.65	110	32	450	4.0	2.78	30	4.0	< 2	1.02	8.0	5	151
175576	255	295	345	65.1	0.32	0.21	0.31	5970	2.82	404	160	1460	62.0	2.67	10	3.0	< 2	1.29	21.0	6	429

CERTIFICATION: Hart Bichler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page: 1 of 1
Total Pages: 1
Certificate Date: 27-OCT-96
Invoice No.: I9635605
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9635605

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175574	255	295	77	3.34	1.15	0.57	240	9	0.06	55	880	204	26	0.11	165	10	1560
175576	255	295	3520	11.30	1.07	0.34	75	96	0.05	193	5250	2000	40	0.09	1270	40	2930

CERTIFICATION: *Hart B...*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 6 0 6

BILLING INFORMATION

Date: 14-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9635606

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
9	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
3202	Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1109.88
1	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
3202	Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	389 - Ag con g/t	45.00		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	168.32	168.32
Additional charges:				
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00
				Total Cost \$ 1320.20
				Client Discount (25% of \$1313.20) \$ 328.30
				Net Cost \$ 991.90
				(Reg# R100938885) GST \$ 69.43
				TOTAL PAYABLE (CDN) \$ 1061.33

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QI: 1-A
 Total g: 1
 Date: 13-NOV-96
 Invoice #: 19635606
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

QC DATA OF CERTIFICATE A9635606

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH	Ag g/t RUSH	Ag con FA g/t	Cu %	Pb %	ZnBa %	(XRF) Spec Gr ppm S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.007 0.008	-----	-----	-----	-----	-----	-----	-----	-----
CD-1 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	0.67 0.67	3.54 3.58	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GEO-96 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.0	-----	-----	-----	-----	-----	-----	-----	-----
JV-1 CHEMEX MEAN	Std1	1	0.55 0.62	177 175	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1	1	-----	-----	-----	0.83 0.83	0.46 0.45	0.94 0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	2.61 2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5.60 5.72	400 285	< 10 < 10	< 20 < 20	3.25 3.50	< 10 < 10	380 364	

CERTIFICATION: _____

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC # 1 B
 Tot QC Pg: 1
 Date: 13-NOV-96
 Invoice #: 19635606
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

QC DATA OF CERTIFICATE A9635606

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 ---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CD-1 CHEMEX MEAN	Std1 ---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GEO-96 CHEMEX MEAN	Std1 ---	---	---	---	---	---	---	---	---	---	0.009	---	---	---	---
JV-1 CHEMEX MEAN	Std1 ---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
JWB-JV-1 CHEMEX MEAN	Std1 ---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SILICA CHEMEX MEAN	Std1 ---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SU-1A CHEMEX MEAN	Std1 ---	270 266	9350 9440	19.10 19.35	0.8 0.8	2.70 2.70	1010 961	< 10 < 10	1.40 1.38	11480 11050	----- -----	230 221	0.30 0.29	110 115	280 191

CERTIFICATION: _____

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Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9635606

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635606

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

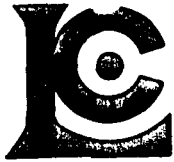
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 13-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	10	RUSH Assay ring approx 150 mesh
295	10	RUSH crush and split (0-3 Kg)
3202	10	Rock - save entire reject
290	10	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	10	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	10	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
389	1	Ag g/t: Concentrate	FA-AAS/GRAV	0.3	1000.0
301	10	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	10	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	10	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	10	Ba ppm	XRF	10	50000
444	10	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	10	As %: HC104-HNO3 digestion	AAS	0.01	100.0
348	10	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	10	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	10	Ag ppm: high grade 24 element	AAS	0.5	200
4031	10	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	10	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	10	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	10	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	10	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	10	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	10	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	10	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	10	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	10	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	10	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	10	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	10	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	10	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	10	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	10	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	10	Pb %: high grade 24 element	AAS	0.001	10.00
4047	10	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	10	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	10	V ppm: A22 ICP package	ICP-AES	10	50000
4050	10	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page : 1-A
 Total Pages : 1
 Certificate Date: 13-NOV-96
 Invoice No. : 19635606
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

CERTIFICATE OF ANALYSIS A9635606

SAMPLE	PREP CODE		Au g/t	Ag g/t	Ag con	Cu	Pb	ZnBa	(XRFSpec	Gr	As	Sb	Hg	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
	RUSHER	RUSH FA	g/t	g/t	g/t	%	%	%	ppm	S.G.	%	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175639	258	295	7.47	998	-----	0.39	3.22	5.64	1110	4.52	0.23	0.29	0.002	>200	0.60	100	< 10	< 20	0.30	350	< 10
175640	258	295	5.31	867	-----	0.10	4.29	8.30	250	4.69	0.18	0.12	0.002	>200	0.30	300	< 10	< 20	0.35	600	10
175641	258	295	9.46	829	-----	1.15	3.02	13.50	390	4.63	2.91	0.11	0.002	>200	0.35	300	< 10	< 20	1.05	1280	30
175642	258	295	5.01	>1000	1023.0	0.24	4.22	20.6	5280	4.41	0.40	0.17	0.004	>200	0.45	100	< 10	< 20	0.90	1920	20
175643	258	295	0.34	168	-----	0.95	0.25	3.06	6450	3.00	0.03	0.01	0.001	181.0	2.10	400	< 10	< 20	6.85	300	10
175646	258	295	< 0.07	39	-----	0.13	0.57	8.42	10560	4.31	< 0.01	< 0.01	0.002	42.0	3.00	100	< 10	< 20	4.75	780	10
175647	258	295	< 0.07	21	-----	0.11	0.22	6.60	4990	3.29	0.01	< 0.01	0.002	19.0	1.75	100	< 10	< 20	8.60	610	10
175648	258	295	< 0.07	16	-----	0.06	0.27	2.49	12350	3.10	0.01	0.01	< 0.001	15.0	4.35	100	< 10	< 20	6.00	220	< 10
175649	258	295	< 0.07	24	-----	0.09	0.35	4.02	10280	3.27	< 0.01	< 0.01	0.001	24.0	4.20	100	< 10	< 20	3.95	370	10
175650	258	295	< 0.07	9	-----	0.06	0.13	2.85	5730	3.03	0.03	< 0.01	< 0.001	8.0	3.45	1000	< 10	< 20	11.10	260	10

CERTIFICATION: *Hank Beckler*

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1-B
 Total Pages: 1
 Certificate Date: 13-NOV-96
 Invoice No.: 19635606
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

CERTIFICATE OF ANALYSIS A9635606

SAMPLE	PREP		Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175639	258	295	60	4210	>30.0	0.1	0.05	300	90	< 0.05	190	3.22	10	< 0.05	340	54200
175640	258	295	30	930	>30.0	< 0.1	0.05	590	70	< 0.05	90	4.25	< 10	< 0.05	50	79400
175641	258	295	30	11450	>30.0	< 0.1	0.15	1010	10	< 0.05	40	2.87	30	< 0.05	50	>100000
175642	258	295	70	2550	26.2	< 0.1	0.15	680	30	< 0.05	30	4.22	30	< 0.05	40	>100000
175643	258	295	80	9380	8.50	0.9	2.55	2330	< 10	< 0.05	20	0.212	240	< 0.05	60	30100
175646	258	295	60	1360	16.65	1.6	2.20	1780	< 10	0.05	10	0.543	90	< 0.05	40	80400
175647	258	295	30	1060	15.00	0.9	3.05	2130	< 10	< 0.05	10	0.192	180	< 0.05	10	62100
175648	258	295	40	610	11.45	2.1	1.25	1340	< 10	0.05	< 10	0.240	150	0.05	30	24600
175649	258	295	50	990	15.70	1.9	1.40	1100	< 10	0.05	20	0.309	70	0.05	40	40600
175650	258	295	30	600	10.40	1.8	3.45	2700	< 10	0.05	30	0.110	320	0.05	240	27300

CERTIFICATION: 

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 6 0 7

BILLING INFORMATION

Date: 28-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9635607

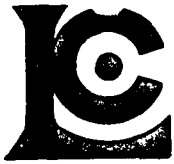
Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	379.28

Total Cost \$	379.28
Client Discount (25%) \$	-94.82
Net Cost \$	284.46
(Reg# R100938885) GST \$	19.91
TOTAL PAYABLE (CDN) \$	304.37



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9635607

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635607

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

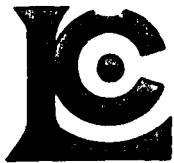
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 27-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	4	RUSH Geo ring to approx 150 mesh
295	4	RUSH crush and split (0-3 Kg)
3202	4	Rock - save entire reject
285	4	ICP - HF digestion charge
287	4	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	4	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	4	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	4	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	4	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	4	Ba ppm	XRF	10	50000
444	4	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	4	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	4	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	4	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	4	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	4	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	4	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	4	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	4	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	4	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	4	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	4	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	4	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	4	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	4	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	4	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	4	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	4	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	4	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	4	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	4	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	4	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	4	Pb ppm: 24 element, rock & core	AAS	2	10000
582	4	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	4	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	4	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	4	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	4	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-A
Total Pages : 1
Certificate Date: 27-OCT-96
Invoice No. : 19635607
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS

A9635607

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As ppm	Sb ppm	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
			RUSH	RUSH	%	%	% ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175644	255	295	115	2.9	0.01	0.02	0.06 4890 2.89	100	26	110 3.2	1.62	120	1.5	< 2	4.88	5.5	6	66
175645	255	295	100	28.6	0.17	0.17	2.24 10630 3.00	70	24	5180 26.4	3.05	230	0.5	< 2	11.35	210	10	29
175651	255	295	280	75.3	0.91	0.18	12.30 5780 3.23	18	22	10850 72.0	4.09	180	0.5	14	6.18	>500	43	23
175652	255	295	1330	223	3.70	0.14	6.34 6710 3.17	2	20	10150 >100.0	3.32	60	1.0	Intf*	5.50	>500	22	57

CERTIFICATION:

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 1-B
Total Pages: 1
Certificate Date: 27-OCT-96
Invoice No.: 19635607
P.O. Number: 6406
Account: GP W

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9635607

SAMPLE	PREP CODE	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175644	255 295	63	6.57	0.67	0.32	905	< 1	0.01	32	90	124	182	0.05	62	20	506
175645	255 295	1665	8.07	1.52	1.04	1310	< 1	0.08	11	90	1500	403	0.05	28	30	>10000
175651	255 295	9590	12.60	1.63	3.05	1230	< 1	0.18	12	630	1640	169	0.07	239	50	>10000
175652	255 295	>10000	11.20	1.54	3.08	1430	< 1	0.16	16	Intf*	1000	170	0.05	162	40	>10000

CERTIFICATION:

Hart Buchler

* INTERFERENCE: Cu on Bi and P. Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 6 0 8

BILLING INFORMATION

Date: 14-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9635608

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
7	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	863.24
2	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	389 - Ag con g/t	45.00		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
344 - Hg %	12.50	168.32	336.64	
Additional charges:				
1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

Total Cost \$ 1241.88
Client Discount (25% of \$1234.88) \$ -308.72

Net Cost \$ 933.16
(Reg# R100938885) GST \$ 65.32

TOTAL PAYABLE (CDN) \$ 998.48

*Not Subject to Discount

COPY



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC # : 1-A
 Tot QC Pg: 1
 Date: 13 NOV-96
 Invoice #: 19635608
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

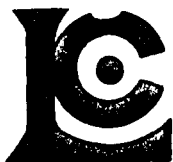
*PLEASE NOTE:

QC DATA OF CERTIFICATE **A9635608**

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH	Ag g/t RUSH	Ag con g/t FA	Cu %	Pb %	Zn %	Ba (XRF) %	Spec Gr ppm S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	0.007	----	----	----	----	----	----	----	----
												0.008								
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	0.68	3.58	----	----	----	----	----	----	----	----	----
										0.67	3.58									
JV-1 CHEMEX MEAN	Std1 1	0.58	173	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
		0.62	175																	
JWB-JV-1 CHEMEX MEAN	Std1 1	----	----	----	0.83	0.46	0.95	----	----	----	----	----	----	----	----	----	----	----	----	----
					0.83	0.45	0.95													
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	2.63	----	----	----	----	----	----	----	----	----	----	----
									2.62											
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	----	----	----	----	5.0	5.50	300	< 10	< 20	3.20	< 10	370
													4.3	5.72	285	< 10	< 20	3.50	< 10	364

CERTIFICATION: *Scott Beaton*

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC #: 1-B
 Tot QC rgs: 1
 Date: 13-NOV-96
 Invoice #: 19635608
 P.O. #: 6406
 GPW

*PLEASE NOTE:

QC DATA OF CERTIFICATE A9635608

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)
CCU-1B CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	std1 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	std1 1	170 266	9310 9440	18.75 19.35	0.7 0.8	2.70 2.70	970 961	< 10 < 10	1.30 1.38	11150 11050	0.018 0.007	230 221	0.30 0.29	100 115	260 191

CERTIFICATION: _____

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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9635608

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635608

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

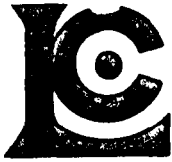
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 13-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	9	RUSH Assay ring approx 150 mesh
295	9	RUSH crush and split (0-3 Kg)
3202	9	Rock - save entire reject
290	9	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	9	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	9	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
389	2	Ag g/t: Concentrate	FA-AAS/GRAV	0.3	1000.0
301	9	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	9	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	9	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	9	Ba ppm	XRF	10	50000
444	9	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	9	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	9	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	9	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	9	Ag ppm: high grade 24 element	AAS	0.5	200
4031	9	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	9	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	9	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	9	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	9	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	9	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	9	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	9	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	9	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	9	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	9	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	9	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	9	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	9	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	9	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	9	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	9	Pb %: high grade 24 element	AAS	0.001	10.00
4047	9	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	9	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	9	V ppm: A22 ICP package	ICP-AES	10	50000
4050	9	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1
 Total Pages: 1
 Certificate Date: 13-NOV-96
 Invoice No.: 19635608
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

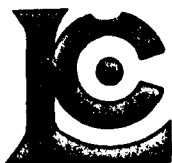
*PLEASE NOTE:

CERTIFICATE OF ANALYSIS A9635608

SAMPLE	PREP CODE		Au g/t	Ag g/t	Ag con g/t	Cu %	Pb %	ZnBa %	(XRFS) Spec Gr ppm	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	
	RUSHER	RUSH FA							S.G.				AAS								
175627	258	295	2.47	865	-----	0.27	4.66	24.1	1190	4.07	0.12	0.10	0.004	>200	0.20	100	< 10	< 20	0.30	2510	30
175628	258	295	9.63	>1000	1651.0	1.00	5.57	10.10	190	4.54	7.34	0.24	0.002	>200	0.25	100	< 10	< 20	0.15	680	< 10
175629	258	295	4.80	>1000	1111.0	0.25	4.78	13.40	1930	4.50	0.60	0.13	0.001	>200	0.70	100	< 10	< 20	0.35	1050	10
175630	258	295	0.72	172	-----	0.31	0.84	7.34	14430	3.91	0.08	< 0.01	0.001	173.0	3.85	< 100	< 10	< 20	0.35	630	10
175631	258	295	7.68	700	-----	0.61	3.90	15.40	1120	4.54	2.50	0.14	0.002	>200	0.45	200	< 10	< 20	0.35	1320	10
175632	258	295	0.58	175	-----	0.25	1.31	16.50	12860	4.04	0.13	< 0.01	0.001	173.0	3.25	< 100	< 10	< 20	0.20	1510	30
175633	258	295	1.71	555	-----	11.40	0.80	4.59	9810	4.05	< 0.01	0.01	0.001	>200	3.55	< 100	< 10	20	1.15	420	50
175634	258	295	3.22	487	-----	9.35	0.06	0.54	4050	3.61	0.01	< 0.01	< 0.001	>200	3.45	< 100	< 10	40	1.75	80	140
175635	258	295	0.27	73	-----	2.20	0.18	0.38	7860	3.04	< 0.01	< 0.01	< 0.001	77.0	6.25	1000	< 10	60	5.95	40	30

CERTIFICATION: _____

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-B
 Total Pages: 1
 Certificate Date: 13-NOV-96
 Invoice No.: 19635608
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

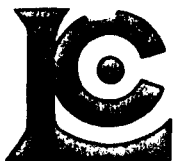
*PLEASE NOTE:

CERTIFICATE OF ANALYSIS A9635608

SAMPLE	PREP CODE		Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175627	258	295	60	2640	20.4	< 0.1	0.15	250	10	< 0.05	60	4.70	30	< 0.05	40	>100000
175628	258	295	70	9810	29.4	< 0.1	0.05	130	< 10	< 0.05	50	5.87	< 10	< 0.05	10	97500
175629	258	295	80	2510	>30.0	0.1	0.20	130	30	< 0.05	30	4.92	20	< 0.05	50	>100000
175630	258	295	70	3100	26.6	1.4	0.55	100	< 10	0.05	10	0.804	20	< 0.05	90	72800
175631	258	295	80	5940	>30.0	< 0.1	0.15	160	50	< 0.05	30	3.63	30	< 0.05	20	>100000
175632	258	295	40	2460	26.2	0.8	0.25	120	10	0.05	10	1.240	10	< 0.05	110	>100000
175633	258	295	40	>100000	26.7	1.0	0.90	1090	10	0.05	30	0.760	50	< 0.05	150	45200
175634	258	295	30	89200	28.7	1.1	2.05	1350	< 10	0.05	30	0.050	80	< 0.05	10	5600
175635	258	295	30	21100	11.35	2.9	6.70	1900	< 10	0.10	10	0.163	270	0.15	170	3700

CERTIFICATION: _____

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 5 8 7 6

BILLING INFORMATION

Date: 10-OCT-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

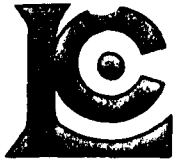
Billing: For analysis performed on
Certificate A9635876

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
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V7X 1C4

A9635876

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9635876

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

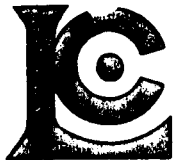
Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 10-OCT-96
Invoice No. : 19635876
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9635876

SAMPLE	PREP CODE		Zn %									
106186	244	--	1.13									

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 6 4 1 9

BILLING INFORMATION

Date: 30-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9636419

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

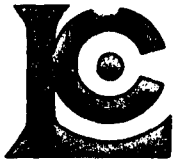
Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	189.64

Total Cost \$	189.64
Client Discount (25%) \$	-47.41
Net Cost \$	142.23
(Reg# R100938885) GST \$	9.96
TOTAL PAYABLE (CDN) \$	152.19

COPY



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 6 0 6 2

BILLING INFORMATION

Date: 14-NOV-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9636062

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
10	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg ‰	12.50	123.32	1233.20

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	1275.20
	Client Discount (25% of \$1268.20)\$	<u>-317.05</u>
	Net Cost \$	958.15
	(Reg# R100938885) GST \$	<u>67.07</u>
	TOTAL PAYABLE (CDN) \$	1025.22

* Not Subject to Discount

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Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F : 1-A
 Tot QC Pg: 1
 Date: 13-NOV-96
 Invoice #: I9636062
 P.O. #: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

QC DATA OF CERTIFICATE A9636062

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSHERUSH FA	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)
CCU-1B CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	0.008	----	----	----	----	----	----	----	----
CD-1 CHEMEX MEAN	Std1 1	----	----	----	----	----	0.68	3.57	----	----	----	----	----	----	----	----	----
JL-1 CHEMEX MEAN	Std1 1	0.62	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JV-1 CHEMEX MEAN	Std1 1	----	172	----	----	----	----	----	----	----	----	----	----	----	----	----	----
JWB-JV-1 CHEMEX MEAN	Std1 1	----	175	0.82	0.46	0.98	----	----	----	----	----	----	----	----	----	----	----
SILICA CHEMEX MEAN	Std1 1	----	----	----	----	----	2.70	----	----	----	----	----	----	----	----	----	----
SU-1A CHEMEX MEAN	Std1 1	----	----	----	----	----	----	----	4.0	5.65	300	< 10	< 20	3.15	< 10	360	280
									4.3	5.72	285	< 10	< 20	3.50	< 10	364	266

CERTIFICATION: 13-NOV-96

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC F 1-B
Tot Qc 1
Date: 13 NOV-96
Invoice #: I9636062
P.O. #:

GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

QC DATA OF CERTIFICATE

A9636062

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JL-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1 ---	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1 ---	9580 9440	19.35 19.35	0.7 0.8	2.70 2.70	960 961	< 10 < 10	1.40 1.38	10970 11050	0.007 0.007	230 221	0.30 0.29	110 115	220 191

CERTIFICATION:

Hank Beckler

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9636062

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9636062

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

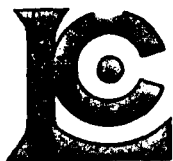
Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	10	RUSH Assay ring approx 150 mesh
295	10	RUSH crush and split (0-3 Kg)
3202	10	Rock - save entire reject
290	10	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	10	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	10	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	10	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	10	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	10	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	10	Ba ppm	XRF	10	50000
444	10	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	10	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	10	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	10	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	10	Ag ppm: high grade 24 element	AAS	0.5	200
4031	10	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	10	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	10	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	10	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	10	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	10	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	10	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	10	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	10	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	10	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	10	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	10	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	10	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	10	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	10	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	10	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	10	Pb %: high grade 24 element	AAS	0.001	10.00
4047	10	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	10	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	10	V ppm: A22 ICP package	ICP-AES	10	50000
4050	10	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1
 Total Pages: 1
 Certificate Date: 13-NOV-96
 Invoice No.: 19636062
 P.O. Number:
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

*PLEASE NOTE:

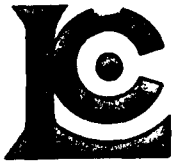
CERTIFICATE OF ANALYSIS A9636062

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr ppm	As %	Sb %	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)		
	RUSER	RUSH FA	RUSER	RUSH FA	%	%	%	ppm	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)		
175667	258	295	1.47	486	1.27	2.92	14.40	880	4.25	0.19	0.08	0.003	>200	0.45	200	< 10	< 20	0.30	1220	50	60
175668	258	295	1.37	383	0.92	2.28	15.30	140	4.11	0.12	0.10	0.002	>200	0.30	< 100	< 10	< 20	0.05	1470	30	70
175669	258	295	2.30	477	1.89	2.72	11.80	470	4.01	0.16	0.11	0.002	>200	0.45	300	< 10	< 20	0.15	1070	30	60
175670	258	295	2.09	441	1.13	2.77	12.60	600	4.24	0.36	0.07	0.004	>200	0.50	300	< 10	< 20	0.50	1040	40	90
175671	258	295	1.37	350	1.20	1.94	12.90	230	4.50	0.08	0.02	0.001	>200	0.45	100	< 10	< 20	1.20	1200	20	50
175672	258	295	0.99	256	0.92	2.15	14.00	50	4.47	0.14	0.03	0.002	>200	0.40	< 100	< 10	< 20	1.90	1280	20	50
175673	258	295	1.10	148	2.10	0.58	12.30	50	4.47	0.04	< 0.01	0.001	150.0	0.35	< 100	< 10	< 20	1.70	1070	70	50
175674	258	295	0.86	204	1.61	1.70	16.70	40	4.32	0.09	0.03	0.001	>200	0.35	< 100	< 10	< 20	1.95	1630	40	60
175675	258	295	1.44	194	1.50	0.34	8.01	100	4.36	0.05	0.02	< 0.001	>200	0.50	< 100	< 10	< 20	4.35	730	90	50
175676	258	295	1.58	371	1.61	1.85	16.80	190	4.24	0.17	0.08	0.002	>200	0.35	100	< 10	< 20	4.35	1560	60	120

CERTIFICATION:

[Handwritten Signature]

*Ba - ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1 of 1
Total Pages: 1
Certificate Date: 13-NOV-96
Invoice No.: 19636062
P.O. Number:
Account: GP W

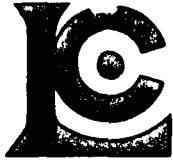
*PLEASE NOTE:

CERTIFICATE OF ANALYSIS A9636062

SAMPLE	PREP		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175667	258	295	14920	24.9	< 0.1	0.05	310	50	< 0.05	80	3.12	10	< 0.05	120	>100000
175668	258	295	9830	26.0	< 0.1	0.05	460	70	< 0.05	80	2.27	< 10	< 0.05	40	>100000
175669	258	295	19530	27.0	< 0.1	0.05	240	40	< 0.05	120	2.77	< 10	< 0.05	120	>100000
175670	258	295	12660	>30.0	< 0.1	0.05	380	70	< 0.05	80	2.80	10	< 0.05	110	>100000
175671	258	295	13370	>30.0	< 0.1	0.05	590	70	< 0.05	70	1.980	10	< 0.05	60	>100000
175672	258	295	9600	>30.0	< 0.1	0.05	650	60	< 0.05	20	2.17	40	< 0.05	30	>100000
175673	258	295	21800	>30.0	< 0.1	0.05	570	40	< 0.05	30	0.535	30	< 0.05	< 10	>100000
175674	258	295	16840	>30.0	< 0.1	0.05	700	40	< 0.05	40	1.650	40	< 0.05	10	>100000
175675	258	295	15430	>30.0	< 0.1	0.05	1010	70	< 0.05	50	0.308	70	< 0.05	50	74600
175676	258	295	17100	26.4	< 0.1	0.05	920	50	< 0.05	80	1.850	90	< 0.05	40	>100000

CERTIFICATION:

Hank Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 6 4 1 8

BILLING INFORMATION

Date: 14-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9636418

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

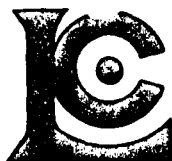
# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
13	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	1603.16

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
2	3222 - 5 gal. pail and lid	7.00*		14.00

	Total Cost \$	1652.16
	Client Discount (25% of \$1638.16)\$	409.54
	Net Cost \$	1242.62
	(Reg# R100938885) GST \$	86.98
	TOTAL PAYABLE (CDN) \$	1329.60

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

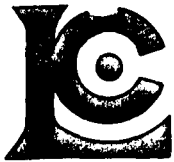
QC Page: 1-A
 Tot QC Pg: 1
 Date: 13 NOV-96
 Invoice #: 19636418
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9636418

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au g/t RUSH RUSH FA	Ag g/t	Cu %	Pb %	ZnBa (XRFS) %	Spec Gr ppm	Gr S.G.	As %	Sb %	Hg %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
CCU-1B CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.007 0.008	-----	-----	-----	-----	-----	-----	-----	-----	-----
CD-1 CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	0.68 0.67	3.58 3.58	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JV-1 CHEMEX MEAN	Std1 1	0.55 0.62	173 175	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
JWB-JV-1 CHEMEX MEAN	Std1 1	-----	-----	0.82 0.83	0.44 0.45	0.95 0.95	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SILICA CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	2.62 2.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SU-1A CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4.0 4.3	5.50 5.72	300 285	< 10 < 10	< 20 < 20	3.10 3.50	< 10 < 10	360 364	270 266	

CERTIFICATION: Hank Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P. : 1-B
 Tot QC Pg: 1
 Date: 13-NOV-96
 Invoice #: 19636418
 P.O. #: 6406
 GP W

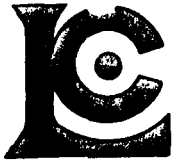
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9636418

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm	
		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	
CCU-1B CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
CD-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
JWB-JV-1 CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SILICA CHEMEX MEAN	Std1 ---	1	----	----	----	----	----	----	----	----	----	----	----	----	
SU-1A CHEMEX MEAN	Std1 ---	1	9560 9440	18.65 19.35	0.7 0.8	2.65 2.70	980 961	< 10 < 10	1.50 1.38	11360 11050	0.008 0.007	230 221	0.30 0.29	110 115	380 191

CERTIFICATION: *Hart B...*



Chemex Labs Ltd.

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Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9636418

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

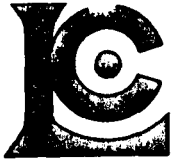
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 13-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	13	RUSH Assay ring approx 150 mesh
295	13	RUSH crush and split (0-3 Kg)
3202	13	Rock - save entire reject
290	13	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	13	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	13	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	13	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	13	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	13	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	13	Ba ppm	XRF	10	50000
444	13	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	13	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	13	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00
344	13	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	13	Ag ppm: high grade 24 element	AAS	0.5	200
4031	13	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	13	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	13	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	13	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	13	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	13	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	13	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	13	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	13	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	13	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	13	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	13	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	13	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	13	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	13	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	13	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	13	Pb %: high grade 24 element	AAS	0.001	10.00
4047	13	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	13	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	13	V ppm: A22 ICP package	ICP-AES	10	50000
4050	13	Zn ppm: A22 ICP package	ICP-AES	20	100000



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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1
 Total Pages: 1
 Certificate Date: 13-NOV-96
 Invoice No.: 19636418
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9636418

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	FA	RUSH	FA	%	%	%	ppm	S.G.	%	%	%	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
172331	258	295	0.65	385	0.81	4.40	12.70	6480	4.26	0.67	0.07	0.001	>200	0.35	< 100	< 10	< 20	3.55	1100	10	100
172332	258	295	0.82	398	9.03	0.27	6.71	8350	3.61	0.02	0.02	< 0.001	>200	3.40	< 100	< 10	60	3.80	790	110	40
172333	258	295	0.69	285	8.20	0.16	0.83	11110	3.24	0.01	0.01	< 0.001	>200	6.05	100	< 10	60	3.05	80	50	50
172334	258	295	0.89	324	9.63	0.15	0.66	11120	3.34	0.01	< 0.01	< 0.001	>200	5.45	100	< 10	120	3.30	90	60	< 10
172346	258	295	1.75	355	0.76	2.05	12.10	2420	4.27	0.07	0.05	0.007	>200	0.60	< 100	< 10	260	0.85	980	110	110
172347	258	295	1.68	357	1.05	1.25	6.18	310	4.69	0.26	0.13	0.002	>200	0.45	100	< 10	100	0.25	490	70	80
172348	258	295	1.37	281	1.01	1.12	5.99	270	4.59	0.26	0.08	0.002	>200	0.45	100	< 10	60	0.35	500	90	100
172349	258	295	1.06	320	0.77	2.70	14.40	90	4.45	0.18	0.07	0.002	>200	0.30	< 100	< 10	< 20	0.90	1370	30	80
172350	258	295	1.23	258	2.09	1.11	11.90	230	4.52	0.07	0.05	0.001	>200	0.40	100	< 10	20	2.05	1130	70	70
172456	258	295	1.82	507	0.53	1.52	26.8	660	3.97	0.07	0.04	0.013	>200	0.40	100	< 10	20	3.10	3380	40	70
172457	258	295	< 0.07	100	0.06	0.14	50.9	40	3.90	< 0.01	< 0.01	0.030	104.0	0.05	< 100	< 10	< 20	2.80	6590	10	10
172458	258	295	1.85	452	0.53	2.07	17.60	1750	3.93	0.09	0.06	0.009	>200	1.10	100	< 10	40	2.70	1880	10	120
172459	258	295	1.61	356	0.28	1.34	23.8	900	3.96	0.09	0.05	0.013	>200	0.55	100	< 10	< 20	3.90	2910	40	50

CERTIFICATION: _____



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Page Number: 1-B
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 Certificate Date: 13-NOV-96
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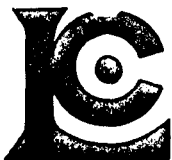
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9636418

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
172331	258	295	8130	26.7	< 0.1	0.10	870	40	< 0.05	70	4.62	100	< 0.05	60	>100000
172332	258	295	94100	21.2	1.4	2.00	1630	< 10	0.05	10	0.244	150	< 0.05	40	65600
172333	258	295	80100	16.05	3.3	4.40	1310	10	0.20	10	0.126	150	0.15	170	7940
172334	258	295	95600	17.75	3.0	3.75	1370	< 10	0.20	10	0.127	140	0.10	130	6440
172346	258	295	7550	>30.0	0.2	0.10	300	30	< 0.05	110	2.10	30	< 0.05	140	>100000
172347	258	295	10500	>30.0	0.1	0.05	150	30	< 0.05	60	1.280	10	< 0.05	50	61800
172348	258	295	10220	>30.0	0.1	0.05	180	30	< 0.05	50	1.140	10	< 0.05	50	58800
172349	258	295	7820	>30.0	0.1	0.05	340	50	< 0.05	90	2.86	20	< 0.05	50	>100000
172350	258	295	21100	>30.0	0.1	0.05	510	30	< 0.05	40	1.120	80	< 0.05	50	>100000
172456	258	295	5250	19.85	0.3	0.05	810	50	< 0.05	140	1.510	60	< 0.05	120	>100000
172457	258	295	630	7.95	< 0.1	0.10	610	< 10	< 0.05	10	0.136	80	< 0.05	< 10	>100000
172458	258	295	5460	25.0	0.5	0.15	490	50	< 0.05	160	2.10	100	< 0.05	480	>100000
172459	258	295	2870	21.6	0.1	0.15	690	80	< 0.05	140	1.370	160	< 0.05	290	>100000

CERTIFICATION: _____



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9636419

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9636419

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

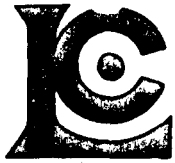
Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	2	RUSH Geo ring to approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
285	2	ICP - HF digestion charge
287	2	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	2	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	2	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	2	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	2	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	2	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	2	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	2	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	2	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	2	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	2	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	2	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	2	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	2	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	2	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	2	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	2	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	2	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	2	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	2	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	2	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	2	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	2	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	2	Pb ppm: 24 element, rock & core	AAS	2	10000
582	2	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	2	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	2	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	2	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	2	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 29 OCT 96
 Invoice No. : 19636419
 P.O. Number : 6406
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Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

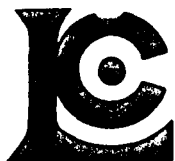
*PLEASE NOTE:

CERTIFICATE OF ANALYSIS A9636419

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRF) Spec Gr	As ppm	Sb ppm	Hg Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	
	RUSH	RUSH	RUSH	RUSH	%	%	% ppm S.G.	ppm	ppm	ppb AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
172335	255	295	120	72.2	1.84	0.15	1.07 11500 2.94	6	15.0	760	66.4	4.78	3860	< 0.5	Intf*	8.17	82.0	14	54
172336	255	295	15	10.2	0.13	0.05	0.22 13850 2.90	8	14.0	530	9.0	6.90	1620	0.5	46	7.88	15.5	13	22

CERTIFICATION: Haut Bichler

*INTERFERENCES: Cu ON Bi AND P.



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Project : WOLVERINE
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*PLEASE NOTE:

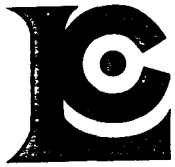
CERTIFICATE OF ANALYSIS A9636419

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
172335	255	295	>10000	7.60	1.62	3.73	1745	12	0.66	11	Intf*	1400	336	0.06	290	30	9580
172336	255	295	1325	7.04	3.56	4.51	1655	3	0.26	6	340	380	325	0.16	54	10	2010

CERTIFICATION:

Hart Beckler

*INTERFERENCES: Cu ON Bi AND P.



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Fax: (604) 984-0218

November 18, 1996

Terry Tucker
Westmin Resources Ltd.
Project: Wolverine
P.O. Box 49066, The Bentall Centre
Vancouver, BC
V7X 1C4



Dear Terry,

Re: **Certificate of Analysis A9636549**
Corrected Copy for Specific Gravity - Sample 175768

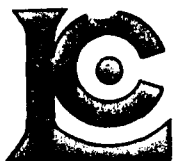
As per your request, we have checked the specific gravity data originally reported on Certificate of Analysis A9636549 for sample 175768. Unfortunately, a calculation error occurred and the value was incorrectly reported as 5.07 instead of 3.23. A corrected copy of Certificate of Analysis A9636549 is enclosed and your computer accounts have been updated.

We apologize for any inconvenience this error may have caused you. Please contact me if you have any questions or require more information.

Sincerely,

Brenda Caughlin
Director, Laboratory Services

Enclosure: Certificate of Analysis A9636549
Corrected Copy for Specific Gravity - Sample 175768



Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
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 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9636549

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9636549

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 14-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	5	RUSH Assay ring approx 150 mesh
295	5	RUSH crush and split (0-3 Kg)
3202	5	Rock - save entire reject
290	5	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	5	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	5	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	5	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	5	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	5	Ba ppm	XRF	10	50000
444	5	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	5	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	5	Sb %: HNO3-chlorate-HCL-ascorbic	AAS	0.01	100.00
344	5	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	5	Ag ppm: high grade 24 element	AAS	0.5	200
4031	5	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	5	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	5	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	5	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	5	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	5	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	5	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	5	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	5	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	5	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	5	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	5	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	5	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	5	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	5	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	5	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	5	Pb %: high grade 24 element	AAS	0.001	10.00
4047	5	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	5	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	5	V ppm: A22 ICP package	ICP-AES	10	50000
4050	5	Zn ppm: A22 ICP package	ICP-AES	20	100000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-A
Total Pages : 1
Certificate Date: 01 NOV-96
Invoice No. : 19636549
P.O. Number :
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* CORRECTED COPY

CERTIFICATE OF ANALYSIS A9636549

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRFSpec Gr % ppm S.G.)	As %	Sb %	Hg Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)			
	RUSH	RUSH FA								AAS											
175764	258	295	1.27	376	1.15	1.99	13.40	12280	4.12	0.09	0.11	0.002	>200	0.25	300	< 10	20	2.80	1200	50	60
175765	258	295	1.54	344	1.08	1.19	14.40	11260	4.68	0.19	0.08	0.002	>200	0.30	200	< 10	< 20	2.35	1390	30	90
175766	258	295	1.95	599	0.57	2.75	13.90	210	4.49	0.35	0.13	0.002	>200	0.35	100	< 10	< 20	1.75	1280	20	90
175767	258	295	1.99	564	0.57	1.14	7.73	7930	3.85	0.36	0.09	< 0.001	>200	4.10	300	< 10	< 20	2.75	760	10	100
175768	258	295	0.45	102	1.25	0.08	1.42	8230	3.23	0.02	0.02	< 0.001	108.0	4.65	200	< 10	< 20	2.15	120	50	130

CERTIFICATION: Hank Beche

* FOR SPECIFIC GRAVITY SAMPLE 175768



Chemex Labs Ltd.

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Page Number : 1-B
Total Pages : 1
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CERTIFICATE OF ANALYSIS A9636549

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175764	258	295	11080	25.5	< 0.1	0.05	560	50	< 0.05	100	1.940	60	< 0.05	60	>100000
175765	258	295	10910	>30.0	< 0.1	0.10	590	60	< 0.05	30	1.080	30	< 0.05	50	>100000
175766	258	295	5550	>30.0	< 0.1	0.05	580	60	< 0.05	60	2.84	30	< 0.05	60	>100000
175767	258	295	5740	24.6	1.7	0.45	480	10	0.05	20	1.150	100	0.05	220	69900
175768	258	295	12300	13.35	2.2	1.40	510	10	0.15	20	0.090	130	0.05	140	13120

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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P.O. BOX 49066, THE BENTALL CENTRE
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V7X 1C4

INVOICE NUMBER

1 9 6 3 6 7 7 0

BILLING INFORMATION

Date: 5-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

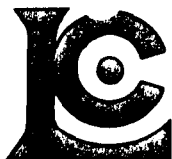
Billing: For analysis performed on
Certificate A9636770

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
151	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	5262.35
				Total Cost \$ 5262.35
				Client Discount (25%) \$ -1315.59
				Net Cost \$ 3946.76
				(Reg# R100938885) GST \$ -276.27
				TOTAL PAYABLE (CDN) \$ 4223.03



Chemex Labs Ltd.

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 British Columbia, Canada V7J 2C1
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 VANCOUVER, BC
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

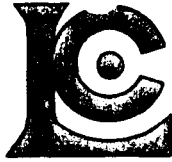
QC Pag. 1-A
 Tot QC Pg: 2
 Date: 31-OCT-96
 Invoice #: 19636770
 P.O. #: 6406
 GPW

QC DATA OF CERTIFICATE A9636770

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
FMC-1	std1	2	340	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	363	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	----	7.59	1170	1.0	< 2	2.12	1.0	21	101	185
G96-TOT	std2	1	----	----	----	----	----	7.64	1230	1.5	< 2	2.20	1.5	19	102	191
G96-TOT	std1	2	----	----	----	----	----	7.83	1250	1.5	< 2	2.23	1.5	22	100	193
G96-TOT	std2	2	----	----	----	----	----	7.58	1200	1.0	< 2	2.11	1.0	20	101	187
G96-TOT	std1	3	----	----	----	----	----	7.75	1230	1.0	< 2	2.17	1.0	20	109	194
G96-TOT	std2	3	----	----	----	----	----	7.40	1170	1.0	< 2	2.01	0.5	19	96	184
G96-TOT	std1	4	----	----	----	----	----	7.64	1250	1.0	< 2	2.11	1.5	20	105	191
G96-TOT	std2	4	----	----	----	----	----	7.80	1240	1.0	< 2	2.17	1.0	20	108	197
CHEMEX MEAN	----	----	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	std1	1	----	60	5.0	160	5.4	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	58	4.4	170	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std1	2	----	60	5.0	160	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std2	2	----	60	4.8	170	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std1	3	----	60	4.6	170	6.0	----	----	----	----	----	----	----	----	----
GEO-96	std2	3	----	62	4.6	160	5.0	----	----	----	----	----	----	----	----	----
GEO-96	std1	4	----	62	4.8	170	6.0	----	----	----	----	----	----	----	----	----
GEO-96	std2	4	----	60	4.6	160	5.6	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
JL-1	std1	1	95	----	----	----	----	----	----	----	----	----	----	----	----	----
JL-1	std2	2	100	----	----	----	----	----	----	----	----	----	----	----	----	----
JL-1	std1	4	90	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	92	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	< 10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	3	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	0.30	70	< 0.5	< 2	0.03	< 0.5	< 1	6	1	1
SIO2-T3	Blnk	2	----	----	----	----	0.29	30	< 0.5	< 2	0.01	< 0.5	< 1	< 1	2	2
SIO2-T3	Blnk	3	----	----	----	----	0.28	30	< 0.5	< 2	0.01	< 0.5	< 1	1	1	1
CHEMEX MEAN	----	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	5	2

CERTIFICATION:

Terry Tucker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

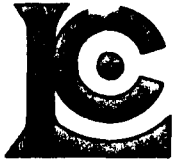
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC: 1-B
 Tot QC Pg: 2
 Date: 31-OCT-96
 Invoice #: I9636770
 P.O. #: 6406
 GPW

QC DATA OF CERTIFICATE A9636770

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
BL-C	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
FMC-1	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
G96-TOT	std1	1	4.76	1.85	1.03	1065	8	1.07	20	670	----	229	0.35	157	30	192
G96-TOT	std2	1	4.74	2.00	1.02	1105	10	1.12	27	720	----	236	0.34	161	30	182
G96-TOT	std1	2	5.03	2.00	1.08	1140	10	1.11	26	710	----	242	0.37	169	20	204
G96-TOT	std2	2	4.83	1.87	1.03	1055	8	1.10	25	670	----	231	0.36	159	30	200
G96-TOT	std1	3	4.94	1.92	1.06	1075	10	1.10	27	690	----	237	0.36	163	30	198
G96-TOT	std2	3	4.57	1.82	0.99	995	8	1.05	21	620	----	226	0.34	149	30	188
G96-TOT	std1	4	4.79	1.93	1.02	1045	9	1.09	24	660	----	237	0.35	158	30	200
G96-TOT	std2	4	4.91	1.96	1.07	1080	9	1.12	27	710	----	239	0.36	162	30	210
CHEMEX MEAN	----	----	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	std1	1	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	std2	1	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	std1	2	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	std2	2	----	----	----	----	----	----	----	----	134	----	----	----	----	
GEO-96	std1	3	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	std2	3	----	----	----	----	----	----	----	----	130	----	----	----	----	
GEO-96	std1	4	----	----	----	----	----	----	----	----	120	----	----	----	----	
GEO-96	std2	4	----	----	----	----	----	----	----	----	140	----	----	----	----	
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	120	----	----	----	----	
JL-1	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
JL-1	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
JL-1	std1	4	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-3	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	< 2	----	----	----	----	
SIO2-G2	Blnk	3	----	----	----	----	----	----	----	----	2	----	----	----	----	
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	< 2	----	----	----	----	
SIO2-T3	Blnk	1	0.06	0.01	0.01	5	< 1	< 0.01	< 1	130	----	140	0.01	< 1	< 10	< 2
SIO2-T3	Blnk	2	0.05	0.08	0.01	< 5	< 1	< 0.01	< 1	150	----	139	0.01	4	< 10	< 2
SIO2-T3	Blnk	3	0.05	0.05	0.01	< 5	< 1	< 0.01	< 1	110	----	131	0.01	2	< 10	< 2
CHEMEX MEAN	----	----	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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Client: WESTMIN RESOURCES LTD.
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QC Page: 2 A
 Tot QC Pg: 2
 Date: 31 OCT 96
 Invoice #: 19636770
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9636770

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
WC-96	Std2	1	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std1	3	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WC-96	Std2	4	230	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	239	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
105778	Dup1-01		< 5	4	0.4	100	< 0.2	2.05	310	0.5	< 2	0.55	< 0.5	23	188	61
	Orig1-01		< 5	6	0.4	140	< 0.2	1.98	370	0.5	< 2	0.54	< 0.5	23	168	62
172253	Dup2-01		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Orig2-01		< 5	1	0.4	420	< 0.2	2.54	280	1.5	< 2	0.71	< 0.5	4	264	79
175504	Dup3-01		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Orig3-01		15	34	11.0	40	< 0.2	2.53	70	2.0	< 2	2.30	< 0.5	7	168	34
175558	Dup4-01		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	Orig4-01		< 5	18	30	340	1.4	6.09	290	2.5	< 2	0.52	8.0	7	219	45

CERTIFICATION: _____



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QC F 2-B
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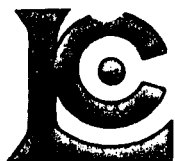
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9636770

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
WC-96	Std2 1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std1 3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WC-96	Std2 4	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
105778	Dup1-01	1.69	0.63	0.39	400	29	0.05	186	170	< 2	280	0.11	81	< 10	274
	Orig1-01	1.65	0.62	0.38	390	28	0.06	178	180	< 2	279	0.11	80	< 10	266
172253	Dup2-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Orig2-01	2.84	0.72	0.35	1490	< 1	0.06	40	240	16	100	0.09	133	< 10	432
175504	Dup3-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Orig3-01	2.75	1.20	0.73	895	2	0.03	24	160	8	82	0.11	77	10	98
175558	Dup4-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Orig4-01	1.73	2.62	0.20	50	15	0.20	61	2390	92	95	0.15	481	< 10	750

CERTIFICATION:

Handwritten signature: Hank Sinden



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9636770

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9636770

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

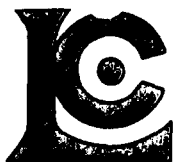
Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	151	Geochem ring to approx 150 mesh
226	151	0-3 Kg crush and split
3202	151	Rock - save entire reject
285	151	ICP - HF digestion charge
287	151	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	151	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	151	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	151	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	151	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	151	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	151	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	151	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	151	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	151	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	151	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	151	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	151	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	151	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	151	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	151	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	151	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	151	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	151	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	151	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	151	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	151	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	151	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	151	Pb ppm: 24 element, rock & core	AAS	2	10000
582	151	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	151	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	151	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	151	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	151	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page: 1-A
Total Pages: 4
Certificate Date: 31-OCT-96
Invoice No.: 19636770
P.O. Number: 6406
Account: GPW

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
105778	205 226	< 5	6	0.4	140	< 0.2	1.98	370	0.5	< 2	0.54	< 0.5	23	168	62
105779	205 226	< 5	2	0.8	30	< 0.2	1.77	540	0.5	< 2	0.26	< 0.5	6	137	65
105780	205 226	< 5	1	1.4	60	< 0.2	1.60	60	5.0	< 2	7.94	< 0.5	6	90	42
105781	205 226	20	8	3.8	100	0.4	0.51	140	2.5	< 2	>25.0	0.5	4	42	21
105782	205 226	< 5	1	1.4	30	< 0.2	2.50	350	3.5	< 2	1.08	0.5	7	157	65
105783	205 226	< 5	4	0.4	< 10	< 0.2	3.04	4030	2.0	< 2	20.9	< 0.5	9	77	70
105784	205 226	< 5	34	2.0	140	< 0.2	2.73	180	3.5	< 2	1.65	0.5	7	141	78
105785	205 226	20	2	3.0	640	0.4	2.65	120	4.0	< 2	7.23	3.0	9	91	64
105786	205 226	15	28	16.5	130	0.6	3.62	200	3.5	< 2	1.51	< 0.5	8	198	47
105787	205 226	15	22	13.0	110	1.2	2.10	110	3.0	< 2	0.43	< 0.5	4	178	45
105788	205 226	30	20	8.0	60	0.8	3.59	130	3.5	< 2	0.80	< 0.5	11	115	58
105789	205 226	50	12	5.6	< 10	0.4	4.79	240	3.5	< 2	1.90	2.0	11	93	80
105917	205 226	< 5	1	6.6	10	< 0.2	1.87	80	0.5	< 2	0.20	< 0.5	5	194	60
105918	205 226	10	1	1.8	< 10	< 0.2	1.79	110	< 0.5	< 2	0.20	< 0.5	4	138	75
105919	205 226	< 5	52	1.0	40	< 0.2	2.13	760	0.5	< 2	0.18	< 0.5	19	144	72
105920	205 226	< 5	72	17.0	440	1.2	7.36	150	4.0	< 2	5.01	2.0	32	121	74
105921	205 226	70	114	13.5	2640	6.4	4.98	190	3.0	< 2	5.21	30.5	6	205	157
105922	205 226	60	90	20.0	1000	4.0	3.28	100	3.0	< 2	5.12	8.5	7	181	101
105923	205 226	225	316	68	3430	10.0	8.28	120	8.0	< 2	1.51	10.0	6	143	85
105944	205 226	15	4	1.0	300	1.0	7.11	330	1.5	< 2	2.54	14.0	23	56	521
105945	205 226	< 5	50	2.0	390	0.4	7.54	200	2.0	< 2	2.53	10.0	11	60	239
105946	205 226	< 5	2	1.4	190	< 0.2	7.24	260	2.5	< 2	1.82	1.5	7	56	55
105947	205 226	< 5	4	0.8	10	< 0.2	7.29	130	2.5	< 2	19.50	0.5	8	15	54
105948	205 226	< 5	1	5.2	200	0.2	6.74	390	2.5	< 2	3.28	6.0	9	48	207
105949	205 226	< 5	4	1.2	640	< 0.2	6.61	1300	2.0	< 2	7.29	8.5	6	54	24
105950	205 226	< 5	2	2.2	20	< 0.2	7.50	2700	2.5	< 2	7.39	0.5	9	42	5
105976	205 226	< 5	24	< 0.2	< 10	< 0.2	6.23	220	2.0	< 2	2.48	5.5	17	151	86
105977	205 226	< 5	20	< 0.2	< 10	< 0.2	6.43	410	2.0	< 2	2.92	2.5	16	118	60
105978	205 226	200	54	0.2	< 10	< 0.2	6.84	130	1.5	< 2	5.00	< 0.5	40	88	144
105979	205 226	40	16	0.2	< 10	< 0.2	7.57	2070	2.0	< 2	5.45	< 0.5	16	138	16
105980	205 226	< 5	16	0.2	< 10	< 0.2	7.41	2000	2.0	< 2	4.08	4.0	11	119	18
105981	205 226	< 5	36	0.4	< 10	< 0.2	4.37	150	2.0	< 2	2.19	6.0	12	122	80
105982	205 226	< 5	48	0.4	< 10	< 0.2	7.55	240	2.5	< 2	2.90	< 0.5	18	124	61
105983	205 226	< 5	122	0.2	< 10	< 0.2	7.56	170	2.5	< 2	1.03	< 0.5	19	107	57
105984	205 226	< 5	70	0.4	< 10	< 0.2	5.53	260	2.0	< 2	1.14	0.5	15	126	81
105985	205 226	< 5	4	0.2	< 10	< 0.2	4.55	280	1.5	< 2	1.18	0.5	12	126	77
105986	205 226	< 5	2	0.4	< 10	0.4	3.30	130	1.5	< 2	1.43	4.0	7	227	78
105987	205 226	< 5	2	1.2	10	< 0.2	2.94	150	1.5	< 2	1.59	2.0	6	250	69
172251	205 226	< 5	2	1.0	170	< 0.2	2.90	130	1.5	< 2	0.40	< 0.5	5	193	73
172252	205 226	100	2	1.2	70	< 0.2	2.83	200	2.0	< 2	1.13	< 0.5	5	190	53

CERTIFICATION: *Hart Borden*



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

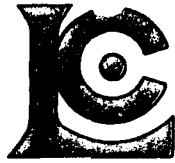
Page: 1 of 1 B
 Total Pages: 4
 Certificate Date: 31-OCT-96
 Invoice No.: I9636770
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
105778	205 226	1.65	0.62	0.38	390	28	0.06	178	180	< 2	279	0.11	80	< 10	266
105779	205 226	3.56	0.31	0.34	220	3	0.04	29	210	< 2	125	0.11	71	< 10	40
105780	205 226	14.80	0.44	1.07	4940	14	0.03	10	390	50	261	0.09	117	50	134
105781	205 226	4.14	0.12	0.20	2460	11	0.05	4	600	250	430	0.02	71	30	258
105782	205 226	2.69	1.10	0.30	400	5	0.05	22	650	28	33	0.11	136	< 10	132
105783	205 226	3.20	1.13	0.44	2640	< 1	0.05	9	1720	26	807	0.19	102	20	24
105784	205 226	3.61	1.14	0.42	1310	1	0.04	50	860	160	53	0.15	181	10	694
105785	205 226	7.47	0.90	0.59	3480	3	0.07	26	940	170	183	0.11	175	30	1575
105786	205 226	2.44	1.94	0.95	845	7	0.09	54	1390	8	209	0.14	180	10	196
105787	205 226	1.64	0.93	0.24	90	1	0.05	48	1550	6	58	0.08	116	< 10	206
105788	205 226	2.18	1.32	0.63	400	< 1	0.10	42	400	8	100	0.15	134	< 10	232
105789	205 226	2.63	2.12	0.97	760	< 1	0.10	32	520	< 2	159	0.21	118	10	534
105917	205 226	4.80	0.28	0.32	555	4	0.04	27	380	< 2	100	0.11	74	< 10	46
105918	205 226	7.30	0.16	0.45	575	1	0.02	18	550	< 2	53	0.10	86	10	44
105919	205 226	1.58	0.61	0.23	190	26	0.07	172	190	< 2	120	0.12	91	< 10	158
105920	205 226	4.77	3.77	1.49	1075	3	0.21	43	690	18	190	0.53	277	30	210
105921	205 226	2.53	2.53	0.69	625	13	0.10	32	440	380	313	0.12	215	10	3370
105922	205 226	2.99	1.62	0.42	555	4	0.04	47	2080	100	291	0.12	204	10	894
105923	205 226	4.92	3.97	0.93	225	90	0.21	111	2320	110	86	0.21	1005	20	794
105944	205 226	6.96	1.61	4.15	555	3	0.25	5	400	84	65	0.12	31	30	1310
105945	205 226	4.95	2.78	2.46	530	4	0.41	6	380	60	105	0.13	27	10	1385
105946	205 226	2.29	3.31	1.92	355	4	0.24	2	410	8	80	0.16	22	10	230
105947	205 226	3.41	3.34	1.14	1620	< 1	0.30	1	400	10	737	0.14	22	10	38
105948	205 226	2.72	3.10	1.93	405	< 1	0.23	4	360	8	167	0.15	33	10	664
105949	205 226	0.94	2.99	0.83	560	6	0.23	5	420	26	177	0.17	85	< 10	612
105950	205 226	1.39	3.62	1.12	535	5	0.24	4	420	2	155	0.20	25	< 10	130
105976	205 226	3.47	2.81	1.33	520	7	0.80	56	2580	34	125	0.35	269	10	588
105977	205 226	3.16	2.96	1.60	800	7	0.95	43	1560	30	142	0.33	210	10	414
105978	205 226	8.81	3.32	3.42	2210	2	0.58	59	1840	< 2	219	1.69	323	40	212
105979	205 226	2.96	1.43	2.20	1145	< 1	3.31	37	750	16	387	0.49	92	10	116
105980	205 226	2.23	2.92	2.17	945	2	1.91	25	780	40	147	0.33	99	10	594
105981	205 226	2.56	2.56	1.01	550	13	0.13	49	1970	32	60	0.20	315	< 10	922
105982	205 226	3.55	2.96	2.09	845	7	2.09	43	1260	24	94	0.40	165	10	108
105983	205 226	3.50	2.87	1.25	510	7	1.87	45	1730	< 2	50	0.37	193	10	126
105984	205 226	3.12	2.55	1.28	515	8	0.68	49	1480	< 2	40	0.27	247	10	126
105985	205 226	2.55	2.05	1.24	370	< 1	0.74	35	630	8	44	0.22	116	< 10	58
105986	205 226	1.71	1.82	0.87	190	24	0.13	130	2300	64	39	0.14	790	< 10	536
105987	205 226	1.39	1.71	0.77	230	31	0.05	144	870	8	41	0.11	1195	< 10	180
172251	205 226	5.25	0.76	0.42	1710	80	0.08	39	480	10	69	0.13	125	< 10	498
172252	205 226	1.94	0.66	0.49	1005	3	0.05	40	220	16	95	0.09	117	< 10	104

CERTIFICATION: _____



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CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172253	205 226	< 5	1	0.4	420	< 0.2	2.54	280	1.5	< 2	0.71	< 0.5	4	264	79
172254	205 226	< 5	1	2.8	90	< 0.2	2.41	130	1.5	< 2	1.89	< 0.5	9	128	53
172255	205 226	20	1	5.6	350	< 0.2	2.15	50	1.5	< 2	1.93	< 0.5	5	105	28
172256	205 226	< 5	1	0.8	10	< 0.2	3.09	310	4.5	< 2	0.72	< 0.5	6	165	43
172257	205 226	15	2	0.8	< 10	< 0.2	1.06	110	3.0	< 2	1.44	< 0.5	1	131	11
172258	205 226	< 5	1	0.6	< 10	< 0.2	2.41	230	4.0	< 2	1.21	< 0.5	3	125	19
172259	205 226	< 5	6	1.4	220	< 0.2	2.10	110	3.0	< 2	0.06	3.5	6	187	52
172260	205 226	< 5	4	2.4	260	< 0.2	2.51	90	4.0	< 2	0.55	2.0	5	181	70
172261	205 226	25	6	3.0	690	0.4	2.51	70	3.5	< 2	7.48	8.0	7	139	65
172262	205 226	10	6	8.4	420	0.2	2.32	30	5.0	< 2	8.51	6.5	10	144	64
172263	205 226	< 5	16	1.6	10	< 0.2	3.21	460	6.0	< 2	0.37	< 0.5	19	139	96
172264	205 226	15	16	4.4	180	< 0.2	4.25	140	5.5	< 2	0.54	7.5	16	187	118
172265	205 226	< 5	2	5.8	60	0.4	6.88	400	6.0	< 2	1.07	2.0	6	100	21
172266	205 226	< 5	2	3.0	< 10	< 0.2	3.06	280	1.5	< 2	0.81	< 0.5	7	215	64
172267	205 226	25	1	0.8	< 10	< 0.2	2.40	490	0.5	< 2	1.45	< 0.5	5	179	57
172268	205 226	10	6	3.4	120	< 0.2	2.08	110	1.0	< 2	0.48	< 0.5	5	149	59
172269	205 226	15	6	3.4	360	< 0.2	2.24	70	1.0	< 2	1.61	< 0.5	6	156	69
172270	205 226	10	4	4.2	290	< 0.2	2.69	160	1.5	< 2	0.25	< 0.5	7	119	68
172271	205 226	< 5	4	3.2	140	< 0.2	3.13	530	2.0	< 2	0.88	< 0.5	9	161	58
172272	205 226	< 5	2	1.0	< 10	< 0.2	2.73	1410	1.5	< 2	3.05	< 0.5	7	214	36
172273	205 226	< 5	4	4.0	< 10	< 0.2	3.81	1520	2.5	< 2	3.17	< 0.5	12	148	61
172274	205 226	< 5	10	1.8	10	< 0.2	3.55	1430	2.0	< 2	2.03	< 0.5	14	201	56
172275	205 226	35	10	0.8	< 10	< 0.2	3.77	1270	2.5	< 2	1.38	< 0.5	15	142	93
172276	205 226	< 5	8	2.4	60	< 0.2	4.10	1380	3.5	< 2	0.33	< 0.5	13	176	55
172277	205 226	10	22	9.0	110	0.8	3.82	70	3.0	< 2	3.99	0.5	10	231	56
172278	205 226	15	20	10.0	370	0.6	4.30	90	3.0	< 2	4.36	4.5	15	145	61
172279	205 226	10	10	8.2	230	1.4	6.64	180	4.5	< 2	2.41	1.0	10	104	27
172283	205 226	30	168	90	1440	11.6	2.04	90	2.5	< 2	2.65	11.5	4	343	164
172284	205 226	145	58	11.0	230	2.6	3.06	70	3.0	< 2	1.39	1.0	4	191	56
172285	205 226	60	48	8.4	110	1.6	3.10	70	2.5	< 2	1.46	< 0.5	6	141	46
172286	205 226	40	24	13.0	80	1.0	4.82	120	2.0	< 2	3.09	0.5	11	111	35
172301	205 226	30	34	20.0	380	1.0	7.37	350	4.0	< 2	1.25	6.5	7	160	26
172302	205 226	20	6	7.4	70	< 0.2	11.15	200	5.0	< 2	0.37	1.0	8	56	11
172303	205 226	35	154	49	1290	4.4	4.02	180	4.5	< 2	1.05	47.5	5	160	109
172304	205 226	< 5	16	6.6	30	0.6	8.15	3780	2.5	< 2	0.54	< 0.5	7	98	7
172305	205 226	< 5	14	5.0	10	0.6	8.53	480	2.5	< 2	0.51	< 0.5	6	84	6
172306	205 226	< 5	4	8.2	< 10	1.2	6.69	2370	2.5	< 2	0.81	0.5	6	51	6
172307	205 226	< 5	2	7.6	10	< 0.2	7.25	2670	2.5	< 2	1.00	< 0.5	5	90	6
172308	205 226	< 5	10	3.8	< 10	< 0.2	7.34	240	2.0	< 2	2.17	0.5	5	87	7
172309	205 226	< 5	6	4.4	< 10	< 0.2	6.91	1420	2.0	< 2	1.83	0.5	5	122	8

CERTIFICATION:

Hank Butler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

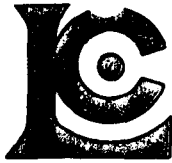
Page: 2 of 2
 Total Pages: 4
 Certificate Date: 31 OCT-96
 Invoice No.: 19636770
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172253	205 226	2.84	0.72	0.35	1490	< 1	0.06	40	240	16	100	0.09	133	< 10	432
172254	205 226	15.25	0.43	0.60	4810	3	0.03	33	1550	4	112	0.10	121	40	104
172255	205 226	13.80	0.26	0.73	>10000	< 1	0.01	9	500	< 2	108	0.09	100	30	42
172256	205 226	7.00	0.60	0.45	605	6	0.09	20	540	< 2	175	0.16	100	10	56
172257	205 226	14.10	0.03	0.24	375	11	0.01	6	1390	< 2	308	0.05	65	30	24
172258	205 226	10.40	0.23	0.32	340	13	0.04	11	1070	< 2	346	0.12	94	20	22
172259	205 226	1.72	1.05	0.23	110	8	0.05	26	110	58	6	0.08	113	< 10	1065
172260	205 226	2.04	1.23	0.28	365	5	0.05	31	500	58	20	0.10	153	< 10	1230
172261	205 226	7.84	0.83	0.58	3800	4	0.08	35	860	180	145	0.11	170	30	3220
172262	205 226	9.04	0.43	0.67	4040	2	0.06	37	1080	260	187	0.10	169	30	2530
172263	205 226	1.45	1.40	0.35	145	1	0.08	24	340	16	25	0.12	170	< 10	32
172264	205 226	2.11	1.69	0.41	340	1	0.13	33	710	50	29	0.16	152	< 10	770
172265	205 226	2.64	2.73	1.04	350	3	0.23	10	180	114	63	0.15	23	< 10	498
172266	205 226	1.87	1.13	0.63	365	4	0.08	48	260	6	86	0.14	99	< 10	104
172267	205 226	1.55	0.84	0.53	975	< 1	0.04	43	390	4	204	0.12	71	< 10	94
172268	205 226	1.30	1.03	0.29	150	< 1	0.04	55	110	8	20	0.08	103	< 10	74
172269	205 226	2.07	1.15	0.28	205	< 1	0.03	46	110	18	53	0.08	104	< 10	220
172270	205 226	1.45	1.38	0.33	95	1	0.07	51	120	20	8	0.11	138	< 10	220
172271	205 226	1.59	1.59	0.38	775	< 1	0.06	38	230	16	36	0.14	132	< 10	156
172272	205 226	1.36	1.38	0.40	2620	< 1	0.03	22	710	16	151	0.12	96	< 10	28
172273	205 226	1.96	2.02	0.54	2240	1	0.05	33	310	8	141	0.18	134	10	38
172274	205 226	1.58	1.87	0.44	2770	< 1	0.06	36	310	8	100	0.16	165	< 10	30
172275	205 226	1.69	2.05	0.52	2900	< 1	0.06	33	290	4	55	0.19	162	< 10	28
172276	205 226	1.36	2.22	0.47	585	< 1	0.10	43	160	12	17	0.20	159	< 10	128
172277	205 226	2.47	1.99	0.55	625	9	0.06	43	1280	26	150	0.18	174	10	132
172278	205 226	2.46	2.32	0.57	735	1	0.08	42	900	24	207	0.23	163	< 10	428
172279	205 226	2.29	3.52	0.81	450	4	0.17	19	480	22	119	0.21	104	10	110
172283	205 226	1.85	1.02	0.24	260	39	0.02	116	4100	312	148	0.07	558	10	1145
172284	205 226	2.47	1.54	0.44	390	4	0.06	55	910	20	86	0.10	177	< 10	340
172285	205 226	2.38	1.52	0.89	585	4	0.06	45	1810	16	98	0.12	129	10	234
172286	205 226	2.50	2.52	2.00	1270	10	0.14	42	470	12	249	0.19	181	10	162
172301	205 226	2.87	3.70	0.67	120	9	0.20	39	1090	40	98	0.21	269	10	434
172302	205 226	1.87	5.27	1.12	50	1	0.29	5	660	24	38	0.31	33	< 10	56
172303	205 226	4.37	2.14	0.43	90	54	0.10	134	2450	108	72	0.12	1575	10	2930
172304	205 226	3.18	4.68	0.37	75	3	0.69	4	630	38	104	0.18	26	10	30
172305	205 226	2.78	4.54	0.39	85	1	0.99	4	570	32	81	0.18	27	10	36
172306	205 226	1.19	3.62	0.77	135	< 1	0.16	1	660	18	85	0.16	24	< 10	44
172307	205 226	1.22	3.61	0.75	160	< 1	0.21	7	770	18	108	0.18	24	< 10	36
172308	205 226	1.28	3.33	0.32	290	1	0.21	4	800	20	210	0.17	26	< 10	30
172309	205 226	1.75	3.06	0.19	270	< 1	0.21	5	960	24	196	0.16	37	< 10	32

CERTIFICATION: _____



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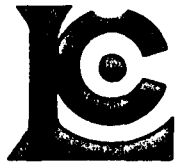
Page Number: 3 A
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175504	205 226	15	34	11.0	40	< 0.2	2.53	70	2.0	< 2	2.30	< 0.5	7	168	34
175505	205 226	10	44	8.8	220	0.6	3.50	60	2.0	< 2	1.88	3.5	7	197	54
175506	205 226	5	40	9.0	80	0.8	4.55	70	2.5	< 2	4.71	0.5	11	109	32
175507	205 226	< 5	38	14.5	70	0.8	3.36	80	3.5	< 2	1.33	7.5	6	231	44
175508	205 226	10	24	15.5	70	>100.0	4.84	110	3.5	< 2	2.41	5.0	24	164	2600
175509	205 226	30	70	19.0	110	11.0	4.26	70	3.5	< 2	0.70	4.5	11	231	76
175510	205 226	< 5	42	16.0	170	1.6	3.58	270	3.0	< 2	2.56	1.0	9	191	48
175511	205 226	< 5	66	47	660	2.8	3.78	90	3.0	< 2	1.65	15.5	4	145	75
175512	205 226	< 5	128	86	770	3.2	3.39	70	3.5	< 2	0.81	48.0	7	293	65
175513	205 226	< 5	6	2.8	40	0.6	6.82	140	2.5	< 2	1.21	< 0.5	4	81	10
175514	205 226	< 5	2	1.6	< 10	0.6	7.05	1310	2.5	< 2	0.59	< 0.5	4	115	7
175515	205 226	< 5	4	2.8	10	0.4	7.22	2180	2.5	< 2	1.14	< 0.5	5	86	7
175516	205 226	< 5	6	2.4	< 10	< 0.2	7.32	340	3.0	< 2	0.39	0.5	4	110	6
175517	205 226	< 5	4	2.0	< 10	< 0.2	7.50	1830	2.5	< 2	0.63	< 0.5	5	105	6
175518	205 226	< 5	8	2.6	< 10	< 0.2	8.06	2620	3.0	< 2	0.63	< 0.5	6	144	8
175519	205 226	< 5	2	2.2	< 10	0.4	7.19	400	3.0	< 2	1.12	0.5	5	85	6
175520	205 226	< 5	4	1.6	10	0.2	6.84	600	2.5	< 2	0.74	< 0.5	4	106	5
175521	205 226	< 5	4	1.6	20	0.2	6.92	1880	2.0	< 2	0.81	0.5	4	149	5
175522	205 226	< 5	2	3.0	50	0.4	6.41	1860	2.0	< 2	1.05	< 0.5	4	87	8
175523	205 226	< 5	2	3.6	1150	0.8	6.64	930	1.5	< 2	0.38	11.0	3	111	19
175524	205 226	< 5	30	11.0	1230	2.2	3.97	100	2.0	< 2	1.32	17.0	8	267	96
175525	205 226	< 5	4	2.6	560	0.2	6.69	350	2.5	< 2	0.67	3.0	2	142	6
175526	205 226	< 5	2	2.4	40	< 0.2	6.79	430	2.0	< 2	1.07	0.5	3	184	6
175527	205 226	< 5	2	1.2	360	0.2	2.33	40	5.5	< 2	10.50	3.0	9	151	51
175542	205 226	< 5	32	10.5	140	0.6	3.36	170	1.0	< 2	0.99	0.5	7	238	49
175543	205 226	< 5	24	9.0	170	0.4	3.33	130	1.5	< 2	0.70	0.5	11	200	54
175544	205 226	< 5	26	10.5	130	0.6	3.43	70	2.5	< 2	1.49	2.5	8	245	43
175545	205 226	< 5	34	9.0	140	0.4	2.43	60	3.0	< 2	0.44	2.5	4	243	50
175546	205 226	< 5	34	7.6	150	0.8	2.51	60	3.0	< 2	0.60	3.5	6	273	48
175547	205 226	< 5	42	8.2	110	1.2	4.18	60	5.0	< 2	1.75	9.0	5	209	66
175548	205 226	< 5	56	8.2	180	1.4	2.37	70	3.0	< 2	0.26	2.5	4	351	121
175549	205 226	< 5	42	8.0	170	1.0	2.20	70	3.0	< 2	0.38	3.0	4	249	63
175550	205 226	< 5	36	8.8	170	1.0	2.34	70	3.0	< 2	0.57	5.0	4	289	59
175551	205 226	< 5	76	44	650	2.0	3.85	60	3.0	< 2	1.03	17.0	5	287	87
175552	205 226	< 5	90	38	780	2.4	5.07	90	4.0	< 2	1.29	20.0	5	235	93
175553	205 226	< 5	56	34	320	1.2	2.75	70	2.5	< 2	0.55	13.5	4	239	32
175554	205 226	< 5	12	5.0	60	< 0.2	7.21	1680	2.0	< 2	0.36	< 0.5	4	139	5
175555	205 226	< 5	2	5.0	30	< 0.2	7.21	1230	2.0	< 2	0.35	< 0.5	3	117	5
175556	205 226	< 5	6	8.4	50	< 0.2	6.77	1460	2.0	< 2	0.78	< 0.5	4	135	15
175557	205 226	< 5	36	20.0	1400	3.0	4.03	820	1.5	< 2	0.58	22.5	6	255	85

CERTIFICATION: *Hank Beckler*



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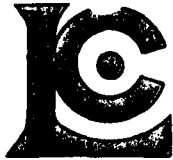
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CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175504	205 226	2.75	1.20	0.73	895	2	0.03	24	160	8	82	0.11	77	10	98
175505	205 226	2.98	1.65	0.62	555	11	0.08	68	1190	14	68	0.12	271	10	460
175506	205 226	3.09	2.16	2.32	1385	4	0.12	48	1080	8	195	0.18	125	10	158
175507	205 226	2.98	1.52	0.33	330	6	0.09	60	1760	8	54	0.11	132	10	1825
175508	205 226	2.65	2.13	0.86	785	5	0.10	51	1470	6	78	0.20	151	4580	726
175509	205 226	4.92	2.03	0.55	270	11	0.12	71	460	24	32	0.18	129	110	658
175510	205 226	2.66	1.69	1.28	820	4	0.06	56	940	10	108	0.14	113	20	830
175511	205 226	2.60	1.91	0.37	155	21	0.08	90	2380	60	101	0.11	633	10	922
175512	205 226	2.55	1.69	0.34	75	43	0.10	139	2030	64	64	0.13	1650	10	2650
175513	205 226	3.40	2.10	0.27	110	< 1	1.68	7	540	24	90	0.16	28	10	28
175514	205 226	1.75	4.29	0.17	105	2	1.06	5	510	22	85	0.17	21	< 10	20
175515	205 226	2.29	4.54	0.24	175	1	1.34	6	480	28	99	0.14	19	< 10	20
175516	205 226	1.65	4.80	0.19	80	< 1	1.29	5	520	20	75	0.16	17	< 10	20
175517	205 226	1.68	4.37	0.16	105	2	2.26	5	560	24	114	0.14	17	< 10	26
175518	205 226	2.99	4.31	0.41	100	< 1	1.52	4	570	24	101	0.20	20	< 10	28
175519	205 226	1.33	3.95	0.78	165	< 1	0.18	6	700	24	126	0.17	25	< 10	46
175520	205 226	1.14	3.35	0.62	95	< 1	0.63	3	690	18	78	0.15	25	< 10	32
175521	205 226	0.93	2.97	0.20	75	1	0.66	3	920	24	80	0.15	22	< 10	24
175522	205 226	0.88	2.98	0.14	75	1	0.21	8	2270	64	116	0.12	53	< 10	18
175523	205 226	1.07	3.11	0.11	60	4	0.20	20	1530	40	56	0.14	174	< 10	900
175524	205 226	2.72	1.87	0.18	90	11	0.12	93	5550	76	120	0.14	548	10	1390
175525	205 226	0.96	2.94	0.11	105	< 1	0.21	6	730	24	95	0.11	42	< 10	342
175526	205 226	1.04	2.87	0.18	165	1	0.22	6	620	24	129	0.12	37	< 10	50
175527	205 226	7.60	0.55	0.68	4480	1	0.15	23	830	120	359	0.11	144	50	1155
175542	205 226	2.15	0.15	0.50	410	4	0.09	48	900	30	138	0.15	190	10	260
175543	205 226	1.97	0.63	0.44	245	5	0.10	53	960	24	86	0.11	168	< 10	328
175544	205 226	2.44	1.50	1.04	550	6	0.09	50	720	12	91	0.14	164	10	260
175545	205 226	2.42	1.01	0.23	60	3	0.08	44	2110	18	47	0.06	86	< 10	398
175546	205 226	2.48	1.06	0.23	110	3	0.06	44	940	14	25	0.07	97	< 10	618
175547	205 226	2.69	1.74	0.38	220	4	0.10	49	2920	14	72	0.10	145	20	372
175548	205 226	2.69	1.09	0.22	40	3	0.08	56	980	20	16	0.08	122	< 10	326
175549	205 226	2.31	1.06	0.20	60	5	0.07	61	1110	14	17	0.07	129	< 10	270
175550	205 226	2.07	1.12	0.22	115	4	0.07	52	810	12	18	0.08	129	< 10	570
175551	205 226	2.46	1.91	0.38	100	25	0.11	95	2890	84	51	0.11	646	< 10	1475
175552	205 226	2.96	2.51	0.53	110	28	0.12	95	2470	76	84	0.14	838	10	1245
175553	205 226	2.04	1.35	0.27	60	22	0.09	77	1440	34	37	0.08	534	< 10	886
175554	205 226	1.45	3.15	0.13	25	2	0.24	8	1200	38	57	0.12	57	< 10	22
175555	205 226	0.71	3.27	0.10	50	1	0.23	8	750	24	63	0.12	41	< 10	8
175556	205 226	1.12	3.10	0.19	230	3	0.22	12	2510	20	87	0.13	75	< 10	56
175557	205 226	3.04	1.81	0.12	40	10	0.15	89	2730	74	69	0.10	180	10	2360

CERTIFICATION:



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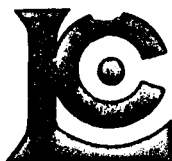
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175558	205 226	< 5	18	30	340	1.4	6.09	290	2.5	< 2	0.52	8.0	7	219	45
175559	205 226	< 5	8	4.8	50	< 0.2	6.82	2740	2.5	< 2	0.21	< 0.5	5	151	12
175560	205 226	< 5	6	4.6	10	< 0.2	7.01	3690	2.0	< 2	0.20	< 0.5	5	153	5
175601	205 226	< 5	1	9.4	< 10	< 0.2	7.52	740	2.5	< 2	4.87	< 0.5	6	112	6
175602	205 226	< 5	8	3.6	20	< 0.2	7.41	420	2.5	< 2	1.81	0.5	6	139	8
175603	205 226	< 5	8	4.2	30	< 0.2	7.31	200	3.0	< 2	2.29	0.5	7	117	8
175604	205 226	< 5	12	3.8	40	< 0.2	7.36	170	3.0	< 2	3.72	0.5	6	124	6
175605	205 226	< 5	44	15.5	850	1.2	6.56	140	4.0	< 2	0.96	14.5	3	111	28
175606	205 226	< 5	50	14.5	770	1.6	4.24	70	2.5	< 2	1.37	10.5	2	237	37
175607	205 226	< 5	84	38	670	3.0	4.64	60	3.5	< 2	0.56	18.5	4	156	62
175608	205 226	30	88	28	2510	2.0	6.55	100	4.5	< 2	0.54	20.0	4	230	43
175609	205 226	< 5	52	19.0	330	0.8	4.63	120	3.0	< 2	1.04	12.5	4	279	42
175610	205 226	< 5	12	5.2	70	< 0.2	9.54	240	4.0	< 2	1.99	< 0.5	6	137	8
175611	205 226	< 5	12	4.8	70	0.2	7.29	1750	2.0	< 2	0.44	1.0	5	149	7
175612	205 226	< 5	24	6.4	50	0.4	6.23	760	2.0	< 2	0.21	0.5	4	153	16
175613	205 226	< 5	32	36	550	2.0	3.24	70	1.5	< 2	1.59	12.5	6	208	71
175614	205 226	< 5	2	14.0	50	0.2	6.67	3400	2.5	< 2	0.80	0.5	3	100	6
175615	205 226	< 5	2	8.0	40	< 0.2	6.96	3790	2.0	< 2	1.03	0.5	4	119	10
175616	205 226	< 5	6	4.6	30	< 0.2	6.41	2360	1.5	< 2	1.60	< 0.5	3	98	8
175617	205 226	< 5	1	0.6	10	< 0.2	2.32	3360	0.5	< 2	0.05	< 0.5	5	156	151
175618	205 226	< 5	2	1.2	< 10	< 0.2	2.22	380	< 0.5	< 2	0.77	< 0.5	4	172	58
175619	205 226	< 5	1	1.6	120	0.6	2.50	40	3.0	< 2	6.67	0.5	10	134	103
175620	205 226	< 5	2	0.2	< 10	< 0.2	1.96	2790	< 0.5	< 2	0.39	< 0.5	5	190	70
175621	205 226	< 5	48	13.5	120	1.2	4.24	60	2.0	< 2	1.79	3.0	8	225	54
175622	205 226	< 5	32	14.5	170	1.0	3.14	60	3.5	< 2	0.34	1.5	5	252	46
175623	205 226	30	44	13.5	160	1.2	2.98	80	4.0	< 2	0.30	< 0.5	4	200	54
175624	205 226	205	132	32	390	6.8	3.60	100	5.0	< 2	0.80	1.5	4	241	87
175625	205 226	520	420	82	2240	30.4	2.79	40	6.5	< 2	2.18	51.5	6	335	276
175626	205 226	20	18	10.5	410	6.0	0.89	500	0.5	< 2	0.05	6.5	1	261	56
175636	205 226	15	12	8.4	2050	7.8	3.22	80	0.5	< 2	12.70	87.5	9	92	3310
175637	205 226	10	42	15.0	1500	4.6	5.45	80	2.0	< 2	10.90	58.0	5	73	442

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

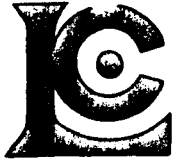
Page: 1 of 4-B
 Total Pages: 4
 Certificate Date: 31-OCT-96
 Invoice No.: 19636770
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9636770

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175558	205 226	1.73	2.62	0.20	50	15	0.20	61	2390	92	95	0.15	481	< 10	750
175559	205 226	0.97	2.57	0.11	40	3	0.24	8	880	20	73	0.11	45	20	48
175560	205 226	0.91	2.74	0.18	55	2	0.22	9	820	20	69	0.12	41	< 10	110
175601	205 226	1.73	3.62	1.18	420	1	0.25	3	390	30	105	0.20	24	< 10	38
175602	205 226	1.24	3.44	0.58	165	3	0.20	3	420	6	47	0.19	32	< 10	40
175603	205 226	1.57	3.52	0.70	245	3	0.19	4	420	14	65	0.19	21	< 10	28
175604	205 226	1.78	3.33	0.73	350	2	0.20	3	400	18	86	0.20	25	< 10	30
175605	205 226	1.89	3.14	0.75	105	13	0.18	30	680	80	38	0.13	345	< 10	836
175606	205 226	5.41	2.08	0.50	120	10	0.13	30	660	68	27	0.08	203	10	604
175607	205 226	3.57	2.22	0.44	45	24	0.14	88	1930	76	33	0.11	703	10	1135
175608	205 226	4.91	3.16	0.57	90	16	0.20	61	910	96	33	0.15	720	10	1085
175609	205 226	4.73	2.34	0.44	110	22	0.14	69	1710	46	62	0.12	760	20	818
175610	205 226	1.82	4.65	0.57	280	1	0.27	8	1050	12	191	0.23	64	< 10	56
175611	205 226	1.55	3.33	0.13	75	1	0.25	5	560	50	70	0.16	31	< 10	84
175612	205 226	2.59	2.87	0.23	55	2	0.20	8	930	40	48	0.12	38	< 10	78
175613	205 226	1.86	1.51	0.15	55	15	0.09	101	7600	68	166	0.12	616	10	1050
175614	205 226	1.02	2.85	0.17	165	1	0.20	9	1280	30	122	0.12	40	< 10	160
175615	205 226	1.16	2.94	0.23	260	1	0.18	8	990	22	131	0.12	38	< 10	636
175616	205 226	0.98	2.83	0.19	275	3	0.18	5	1150	36	163	0.12	33	< 10	38
175617	205 226	2.04	0.67	0.32	150	2	0.06	38	260	< 2	109	0.13	75	< 10	62
175618	205 226	8.22	0.20	0.52	810	1	0.01	22	1840	< 2	391	0.13	97	10	52
175619	205 226	7.70	0.71	0.55	2840	7	0.05	48	770	132	222	0.08	160	30	276
175620	205 226	6.71	0.25	0.41	380	4	0.25	22	490	< 2	163	0.11	86	10	48
175621	205 226	3.07	0.86	0.96	915	10	0.08	79	1580	20	181	0.15	312	10	496
175622	205 226	2.22	1.25	0.39	140	5	0.08	52	1000	20	42	0.11	140	< 10	486
175623	205 226	2.61	1.29	0.31	50	5	0.09	60	1330	28	29	0.10	125	< 10	274
175624	205 226	3.47	1.42	0.36	70	10	0.11	99	3970	76	66	0.11	227	10	484
175625	205 226	4.59	1.20	0.30	45	60	0.04	224	>10000	1000	115	0.11	1110	20	5710
175626	205 226	0.72	0.24	0.06	30	3	0.03	17	130	60	63	0.03	40	< 10	720
175636	205 226	5.07	1.49	4.65	1430	1	0.10	7	50	372	407	0.03	197	30	9850
175637	205 226	3.67	2.59	5.03	1315	9	0.22	19	170	700	311	0.08	230	20	6290

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 6 9 0 9

BILLING INFORMATION

Date: 24-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9636909

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9636909

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9636909

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 24-OCT-96
Invoice No. : 19636909
P.O. Number : 6406
Account : GP W

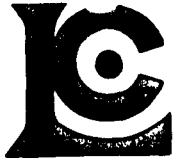
Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9636909

SAMPLE	PREP CODE	Zn %									
105765	244 --	1.71									

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 6 4 9

BILLING INFORMATION

Date: 13-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637649

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
5	255 - RUSH Geo ring to approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	ICP-T27 total digest ICP	20.00		
	991 - Au ppb RUSH	14.65		
	956 - Ag g/t RUSH	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00	94.82	474.10

Total Cost \$	474.10
Client Discount (25%) \$	-118.53
Net Cost \$	355.57
(Reg# R100938885) GST \$	24.89
TOTAL PAYABLE (CDN) \$	380.46



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9637649

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637649

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
255	5	RUSH Geo ring to approx 150 mesh
295	5	RUSH crush and split (0-3 Kg)
3202	5	Rock - save entire reject
285	5	ICP - HF digestion charge
287	5	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
991	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
956	5	Ag g/t: RUSH, aqua regia digest	AAS	0.3	350
301	5	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	5	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	5	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	5	Ba ppm	XRF	10	50000
444	5	Specific gravity S.G.	PICNOMETER	0.01	20.0
13	5	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	5	Sb ppm: HCL-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	5	Hg ppb: HNO3-HCL digestion	AAS-FLAMELESS	10	100000
578	5	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	5	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	5	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	5	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	5	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	5	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	5	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	5	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	5	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	5	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	5	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	5	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	5	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	5	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	5	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	5	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	5	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	5	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	5	Pb ppm: 24 element, rock & core	AAS	2	10000
582	5	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	5	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	5	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	5	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	5	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1-A
Total Pages : 1
Certificate Date: 12-NOV-96
Invoice No. : 19637649
P.O. Number : 6406
Account : GPW

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9637649

SAMPLE	PREP CODE		Au ppb	Ag g/t	Cu %	Pb %	ZnBa (XRFS)	Spec Gr	As ppm	Sb ppm	Hg ppb	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
	RUSH	RUSH	RUSH	RUSH	%	%	%	ppm	S.G.	ppm	ppm	ppb	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	
175571	255	295	120	3.5	0.01	0.01	0.06	6750	2.70	132	40	360	3.0	2.67	840	5.0	< 2	0.71	2.5	6	257
175572	255	295	60	1.5	< 0.01	< 0.01	0.05	6360	2.64	50	26	140	1.0	2.33	520	3.5	< 2	2.16	0.5	5	245
175573	255	295	100	2.4	< 0.01	< 0.01	0.09	8090	2.69	86	62	190	1.6	2.61	1080	4.0	10	0.41	8.0	6	153
175665	255	295	4390	>350	0.36	2.62	6.26	4680	3.24	>10000	1000	28000	>100.0	3.38	420	3.0	2	1.11	466	9	251
175666	255	295	1840	>350	0.85	0.99	5.32	6260	2.93	1100	350	7270	>100.0	2.88	760	4.0	28	3.32	414	32	362

CERTIFICATION: *Hank B...*

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number: 1-B
Total Pages: 1
Certificate Date: 12-NOV-96
Invoice No.: 19637649
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

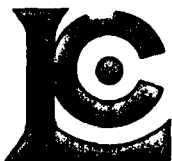
* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9637649

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175571	255	295	151	3.55	1.17	0.27	85	14	0.03	99	2380	54	29	0.09	295	< 10	566
175572	255	295	70	2.30	1.00	0.25	330	3	0.03	68	720	8	94	0.08	132	< 10	468
175573	255	295	69	3.51	1.02	0.26	90	24	0.04	82	1280	20	20	0.08	313	< 10	782
175665	255	295	3680	16.80	1.32	0.34	365	71	0.04	129	1630	>10000	57	0.09	400	40	>10000
175666	255	295	8620	12.45	1.20	0.32	645	46	0.03	199	3810	9600	133	0.09	852	40	>10000

CERTIFICATION: _____

* Ba-ICP RESULTS MAY BE LOW DUE TO PRECIPITATION.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

19637650

BILLING INFORMATION

Date: 14-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637650

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

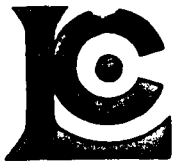
# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	258 - RUSH Assay ring approx 150 mesh	3.75		
	295 - RUSH crush and split (0-3 Kg)	3.90		
	3202 - Rock - save entire reject	0.50		
	A-3 Cu,Pb,Zn assay group	28.12		
	A-22 ICP Package	16.50		
	As & Sb QUOTE	16.50		
	955 - Au g/t RUSH	17.65		
	473 - Ag g/t RUSH FA	7.15		
	912 - Ba (XRF) ppm	8.75		
	444 - Spec Grv S.G.	8.00		
	344 - Hg %	12.50	123.32	246.64

Additional charges:

1	265 - Special prep labor charge	35.00		35.00
1	3222 - 5 gal. pail and lid	7.00*		7.00

	Total Cost \$	288.64
	Client Discount (25% of \$281.64) \$	<u>-70.41</u>
	Net Cost \$	218.23
	(Reg# R100938885) GST \$	<u>15.28</u>
	TOTAL PAYABLE (CDN) \$	233.51

* Not Subject to Discount



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9637650

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637650

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
258	2	RUSH Assay ring approx 150 mesh
295	2	RUSH crush and split (0-3 Kg)
3202	2	Rock - save entire reject
290	2	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
955	2	Au g/tonne: RUSH, 1 assay ton	FA-GRAVIMETRIC	0.07	500.0
473	2	Ag g/tonne: RUSH	FA-GRAVIMETRIC	3	1000
301	2	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
912	2	Ba ppm	XRF	10	50000
444	2	Specific gravity S.G.	PICNOMETER	0.01	20.0
331	2	As %: HClO4-HNO3 digestion	AAS	0.01	100.0
348	2	Sb %: HNO3-chlorate-HCL-ascorbic	AAS	0.01	100.00
344	2	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
1263	2	Ag ppm: high grade 24 element	AAS	0.5	200
4031	2	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	2	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	2	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	2	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	2	Ca %: A22 ICP package	ICP-AES	0.05	30000
4036	2	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	2	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	2	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	2	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	2	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	2	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	2	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	2	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	2	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	2	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	2	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	2	Pb %: high grade 24 element	AAS	0.001	10.00
4047	2	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	2	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	2	V ppm: A22 ICP package	ICP-AES	10	50000
4050	2	Zn ppm: A22 ICP package	ICP-AES	20	100000



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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 13 NOV-96
 Invoice No. : 19637650
 P.O. Number : 6406
 Account : GP W

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637650

SAMPLE	PREP CODE		Au g/t	Ag g/t	Cu %	Pb %	ZnBa (XRF) %	Spec Gr ppm	As %	Sb %	Hg %	Ag ppm	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	
			RUSH	RUSH	FA			S.G.				AAS									
175597	258	295	2.50	490	0.40	1.27	11.20	245	4.48	0.15	0.19	0.005	>200	0.35	100	< 10	20	0.20	830	100	110
175664	258	295	0.48	159	0.24	0.71	8.20	4220	3.48	0.01	< 0.01	0.003	154.0	3.40	1800	< 10	< 20	3.20	700	10	110

CERTIFICATION: Hank Biedler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1 of 1
Total Pages : 1
Certificate Date: 13-NOV-96
Invoice No. : 19637650
P.O. Number : 6406
Account : GP W

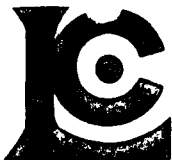
CERTIFICATE OF ANALYSIS

A9637650

SAMPLE	PREP CODE		Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	Pb %	Sr ppm	Ti %	V ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
175597	258	295	3960	>30.0	< 0.1	0.05	220	30	< 0.05	150	1.230	10	< 0.05	80	>100000
175664	258	295	2370	19.70	1.2	1.65	2190	< 10	0.05	< 10	0.676	120	0.05	40	74500

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 6 7 0

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

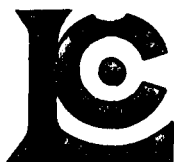
Billing: For analysis performed on
Certificate A9637670

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
124	205 - Geochem ring to approx 150 mesh ICP-T27 total digest ICP 0-3 Kg crush and split	2.50 20.00 2.60		
	983 - Au ppb FA+AA	9.75	34.85	4321.40
Total Cost \$				4321.40
Client Discount (25%) \$				-1080.35
Net Cost \$				3241.05
(Reg# R100938885) GST \$				226.87
TOTAL PAYABLE (CDN) \$				3467.92



Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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o: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC P. 1-A
 Tot QC Prg: 2
 Date: 02-NOV-96
 Invoice #: 19637670
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637670

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C	Blnk	1	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----
FMC-1	std2	1	340	----	----	----	----	----	----	----	----	----	----	----	----	----
FMC-1	std1	3	340	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	363	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	----	----	----	----	----	7.76	1200	1.5	< 2	2.10	1.0	20	101	192
G96-TOT	std2	1	----	----	----	----	----	7.67	1190	1.5	< 2	2.07	0.5	22	94	188
G96-TOT	std1	2	----	----	----	----	----	7.79	1200	1.5	< 2	2.11	0.5	20	95	193
G96-TOT	std2	2	----	----	----	----	----	7.76	1200	1.5	2	2.11	1.0	22	101	193
G96-TOT	std1	3	----	----	----	----	----	7.94	1310	1.5	< 2	2.18	2.0	23	110	195
G96-TOT	std2	3	----	----	----	----	----	7.80	1300	1.0	< 2	2.15	1.0	21	103	191
CHEMEX MEAN	----	----	----	----	----	----	----	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96	std1	1	----	58	5.0	170	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std2	1	----	56	4.6	210	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std1	2	----	58	4.6	190	6.0	----	----	----	----	----	----	----	----	----
GEO-96	std2	2	----	58	4.8	180	5.6	----	----	----	----	----	----	----	----	----
GEO-96	std1	3	----	56	4.4	150	6.0	----	----	----	----	----	----	----	----	----
GEO-96	std2	3	----	58	4.8	210	5.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	64	4.5	168	5.5	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	10	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	10	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	----	----	19	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	2	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	3	----	1	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	----	2	< 0.2	----	< 0.2	----	----	----	----	----	----	----	----	----
SIO2-T3	Blnk	1	----	----	----	----	----	0.32	40	< 0.5	< 2	0.03	< 0.5	< 1	4	3
SIO2-T3	Blnk	2	----	----	----	----	----	0.31	30	< 0.5	2	0.03	< 0.5	2	6	3
SIO2-T3	Blnk	3	----	----	----	----	----	0.31	80	< 0.5	< 2	0.03	< 0.5	< 1	6	3
CHEMEX MEAN	----	----	----	----	----	----	----	0.24	13	< 0.5	< 2	0.01	< 0.5	< 1	5	2
SL-96	std1	1	740	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std2	2	765	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	765	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	std1	2	450	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	std2	3	420	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	----	----	448	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F: 1-B
 Tot QC Pg: 2
 Date: 02-NOV-96
 Invoice #: 19637670
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637670

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
BL-C	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BL-C	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FMC-1	std2	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FMC-1	std1	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G96-TOT	std1	1	4.85	1.99	1.05	1070	9	1.05	25	680	----	232	0.34	160	30	198
G96-TOT	std2	1	4.76	1.99	1.04	1055	9	1.08	29	690	----	228	0.34	155	30	190
G96-TOT	std1	2	4.90	2.02	1.05	1085	10	1.12	26	670	----	233	0.36	159	30	192
G96-TOT	std2	2	4.91	2.00	1.06	1075	10	1.13	26	690	----	233	0.36	159	20	200
G96-TOT	std1	3	4.99	1.91	1.09	1080	9	1.11	26	700	----	239	0.37	165	10	204
G96-TOT	std2	3	4.86	1.86	1.06	1050	7	1.13	27	660	----	237	0.37	160	20	204
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	----	226	0.35	156	20	186
GEO-96	std1	1	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	std2	1	----	----	----	----	----	----	----	----	134	----	----	----	----	----
GEO-96	std1	2	----	----	----	----	----	----	----	----	140	----	----	----	----	----
GEO-96	std2	2	----	----	----	----	----	----	----	----	132	----	----	----	----	----
GEO-96	std1	3	----	----	----	----	----	----	----	----	138	----	----	----	----	----
GEO-96	std2	3	----	----	----	----	----	----	----	----	136	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	120	----	----	----	----	----
SIO2-3	Blnk	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-3	Blnk	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SIO2-G2	Blnk	1	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-G2	Blnk	2	----	----	----	----	----	----	----	----	2	----	----	----	----	----
SIO2-G2	Blnk	3	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	< 2	----	----	----	----	----
SIO2-T3	Blnk	1	0.06	0.06	0.01	5	1	0.01	2	160	----	142	0.01	3	< 10	< 2
SIO2-T3	Blnk	2	0.07	0.08	0.01	5	< 1	0.01	< 1	160	----	137	0.01	5	< 10	2
SIO2-T3	Blnk	3	0.06	0.06	0.01	5	< 1	0.01	3	140	----	140	0.01	4	< 10	4
CHEMEX MEAN	---	---	0.05	0.03	< 0.01	20	< 1	< 0.01	< 1	207	----	178	< 0.01	2	< 10	< 2
SL-96	std1	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SL-96	std2	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	std1	2	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TVB-95	std2	3	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CHEMEX MEAN	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:

Hank Beckler



Chemex Labs Ltd.

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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC #: 2-A
Total g: 2
Date: 02-NOV-96
Invoice #: 19637670
P.O. #: 6406
GPW

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637670

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175561	Dup1-01	70	104	17.5	260	3.4	3.69	160	3.0	< 2	1.93	0.5	11	271	478
	Orig1-01	55	110	19.0	230	3.2	3.77	160	3.0	< 2	1.95	< 0.5	11	297	482
175684	Dup2-01	< 5	1	3.2	10	0.4	7.53	3820	2.0	10	2.17	< 0.5	12	41	33
	Orig2-01	< 5	1	3.2	10	< 0.2	7.77	3930	2.0	10	2.22	0.5	11	47	33
175725	Dup3-01	< 5	1	1.2	130	< 0.2	1.91	1270	0.5	< 2	19.20	< 0.5	7	107	33
	Orig3-01	< 5	1	1.2	30	< 0.2	2.02	1340	1.0	10	20.9	< 0.5	8	104	36

CERTIFICATION:

Hant Boulder



Chemex Labs Ltd.

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 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC F 2-B
 Tot QC r/g: 2
 Date: 02-NOV-96
 Invoice #: 19637670
 P.O. #: 6406
 GPW

QC DATA OF CERTIFICATE

A9637670

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175561	Dup1-01	2.42	1.72	0.46	395	3	0.05	67	390	12	35	0.13	155	10	142
	Orig1-01	2.46	1.77	0.47	400	1	0.05	63	390	12	34	0.15	159	< 10	144
175684	Dup2-01	4.02	2.66	4.53	810	4	0.31	7	400	14	65	0.14	32	10	178
	Orig2-01	4.09	2.78	4.70	830	4	0.35	8	420	16	67	0.14	35	10	184
175725	Dup3-01	2.09	0.59	0.45	2680	< 1	0.04	21	220	24	692	0.09	58	10	82
	Orig3-01	2.17	0.65	0.48	2900	< 1	0.04	20	230	24	745	0.10	63	< 10	86

CERTIFICATION: 



Chemex Labs Ltd.

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V7X 1C4

A9637670

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637670

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

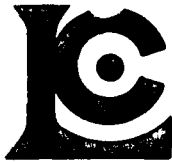
Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	124	Geochem ring to approx 150 mesh
226	124	0-3 Kg crush and split
3202	124	Rock - save entire reject
285	124	ICP - HF digestion charge
287	124	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	124	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	124	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	124	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	124	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	124	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	124	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	124	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	124	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	124	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	124	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	124	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	124	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	124	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	124	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	124	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	124	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	124	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	124	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	124	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	124	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	124	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	124	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	124	Pb ppm: 24 element, rock & core	AAS	2	10000
582	124	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	124	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	124	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	124	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	124	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page No. : 1-A
Total Pages : 4
Certificate Date: 02-NOV-96
Invoice No. : 19637670
P.O. Number : 6406
Account : GP W

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CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175561	205 226	55	110	19.0	230	3.2	3.77	160	3.0	< 2	1.95	< 0.5	11	297	482
175562	205 226	295	170	230	8010	>100.0	2.85	160	3.5	< 2	0.57	72.0	4	312	290
175563	205 226	460	418	270	20900	>100.0	1.83	330	0.5	< 2	0.01	166.0	< 1	159	432
175564	205 226	960	750	610	25700	>100.0	1.70	70	0.5	< 2	0.01	184.0	< 1	168	1070
175565	205 226	645	820	430	19400	>100.0	2.66	130	3.0	< 2	0.59	198.0	5	267	804
175566	205 226	120	208	59	1560	12.0	3.09	120	3.5	< 2	2.95	9.0	8	246	97
175583	205 226	90	1	44	290	55.0	8.41	380	2.0	126	3.04	23.0	39	29	3080
175584	205 226	95	1	14.0	180	22.4	8.65	250	1.5	32	2.57	5.0	41	37	7760
175585	205 226	< 5	1	17.5	60	5.6	7.13	250	2.5	14	3.13	0.5	10	100	268
175586	205 226	< 5	1	8.2	120	1.0	6.19	170	2.0	< 2	5.59	4.0	7	153	181
175587	205 226	< 5	8	8.2	90	0.6	8.26	340	3.0	< 2	0.81	1.5	7	149	86
175588	205 226	10	6	2.6	30	0.4	2.14	310	1.0	< 2	0.21	< 0.5	6	195	75
175589	205 226	< 5	1	3.4	20	< 0.2	1.77	250	0.5	< 2	0.06	< 0.5	3	195	43
175590	205 226	< 5	1	1.4	20	< 0.2	1.91	420	0.5	< 2	0.41	< 0.5	6	167	50
175591	205 226	10	1	1.4	30	< 0.2	2.08	290	1.0	< 2	0.20	< 0.5	4	176	138
175592	205 226	1510	620	>1000	8380	>100.0	3.86	100	5.0	40	0.83	253	85	218	4810
175593	205 226	20	50	14.0	70	2.2	4.58	130	4.5	6	4.95	1.0	11	156	183
175594	205 226	40	86	20	140	2.4	2.58	150	3.5	< 2	0.30	0.5	5	214	91
175595	205 226	35	54	16.0	130	2.0	2.24	140	3.5	< 2	0.22	< 0.5	4	235	71
175596	205 226	155	210	45	430	8.8	3.55	140	5.5	< 2	1.39	3.0	6	279	323
175598	205 226	165	256	45	470	5.2	2.77	110	5.0	< 2	3.37	5.0	5	305	257
175599	205 226	100	46	14.0	120	1.4	2.48	150	3.0	< 2	0.73	< 0.5	4	192	55
175600	205 226	310	186	40	350	7.0	2.84	110	5.0	< 2	6.78	2.0	6	240	126
175638	205 226	1670	910	185	3070	>100.0	3.06	110	7.0	6	1.80	169.5	12	331	1105
175653	205 226	110	52	40	2790	18.0	3.46	120	3.0	2	2.11	119.5	14	260	2790
175654	205 226	< 5	1	18.5	100	1.0	6.85	590	2.5	4	2.32	3.5	9	137	63
175657	205 226	20	6	4.2	150	< 0.2	2.44	110	1.0	< 2	1.46	< 0.5	6	168	66
175658	205 226	15	4	3.8	130	< 0.2	2.54	130	1.5	< 2	0.16	1.0	8	223	84
175659	205 226	< 5	1	3.6	60	< 0.2	4.08	590	3.0	< 2	3.03	1.0	14	184	61
175660	205 226	< 5	4	6.6	70	0.4	2.23	160	2.0	2	1.80	0.5	5	271	45
175661	205 226	115	10	9.0	70	1.0	2.67	90	2.0	< 2	3.09	0.5	6	241	56
175662	205 226	30	30	8.2	1030	1.2	2.80	110	1.5	< 2	1.53	14.0	4	265	52
175663	205 226	95	284	18.0	17400	21.0	4.70	100	2.5	< 2	2.86	258	6	206	218
175677	205 226	110	222	110	770	3.8	2.98	110	4.5	< 2	2.81	12.5	7	315	145
175678	205 226	20	12	66	350	1.6	4.63	140	1.5	8	1.27	4.0	13	235	311
175679	205 226	20	30	46	120	2.6	3.27	120	0.5	108	2.00	< 0.5	14	213	43
175680	205 226	< 5	1	3.2	40	< 0.2	2.84	170	2.0	< 2	0.91	< 0.5	4	194	22
175681	205 226	5	1	5.0	30	0.8	2.16	130	2.0	< 2	3.04	< 0.5	4	203	36
175682	205 226	20	1	5.0	30	0.4	1.67	130	1.5	< 2	4.69	< 0.5	4	137	35
175683	205 226	< 5	2	1.2	30	< 0.2	6.39	4790	2.5	8	8.53	< 0.5	9	77	9

CERTIFICATION:

Hart Beckler



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Project: WOLVERINE
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CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175561	205 226	2.46	1.77	0.47	400	1	0.05	63	390	12	34	0.15	159	< 10	144
175562	205 226	3.90	1.12	0.28	115	13	0.06	80	1280	2960	26	0.08	308	10	6920
175563	205 226	6.10	0.84	0.20	30	5	0.03	7	< 10	2000	4	0.03	30	10	>10000
175564	205 226	9.89	0.79	0.19	35	7	0.03	13	10	>10000	4	0.03	47	30	>10000
175565	205 226	5.81	1.27	0.29	70	55	0.05	122	2280	2800	34	0.07	1100	20	>10000
175566	205 226	3.53	1.46	1.23	1280	28	0.04	92	2560	210	129	0.11	450	10	1270
175583	205 226	10.20	2.58	7.38	750	9	0.47	25	560	2400	126	0.14	401	50	2920
175584	205 226	13.65	1.68	7.97	815	8	0.46	21	360	520	107	0.11	330	60	868
175585	205 226	3.44	3.17	1.95	660	4	0.25	5	420	216	97	0.14	33	10	166
175586	205 226	2.46	2.77	0.86	880	4	0.20	4	340	40	117	0.12	28	10	472
175587	205 226	2.41	3.64	1.35	210	4	0.22	7	480	14	38	0.16	25	< 10	202
175588	205 226	5.12	0.52	0.40	750	9	0.04	32	380	< 2	63	0.11	96	10	184
175589	205 226	1.98	0.51	0.20	160	4	0.04	26	130	< 2	28	0.08	70	< 10	58
175590	205 226	6.99	0.23	0.39	1010	3	0.03	28	1360	< 2	184	0.10	85	< 10	50
175591	205 226	4.84	0.40	0.36	415	3	0.04	21	240	< 2	66	0.12	109	< 10	36
175592	205 226	10.35	1.73	0.44	250	13	0.10	83	740	>10000	33	0.11	388	30	>10000
175593	205 226	3.16	2.17	2.40	1920	4	0.11	38	310	30	195	0.16	119	10	204
175594	205 226	4.28	1.17	0.31	90	8	0.06	70	240	20	11	0.09	149	10	224
175595	205 226	2.68	1.01	0.25	60	4	0.05	59	230	< 2	7	0.08	126	< 10	222
175596	205 226	3.92	1.10	0.27	125	30	0.06	131	5370	48	58	0.10	478	10	472
175598	205 226	3.17	1.28	0.30	265	27	0.03	159	9570	44	142	0.10	527	10	864
175599	205 226	2.18	1.09	0.28	155	4	0.06	53	670	4	46	0.08	116	< 10	210
175600	205 226	3.70	1.20	0.32	630	14	0.04	118	6140	22	267	0.09	280	10	398
175638	205 226	9.03	1.29	0.29	85	79	0.05	209	7870	1840	71	0.10	1455	30	>10000
175653	205 226	3.69	1.59	1.18	650	7	0.07	55	1910	102	70	0.12	133	< 10	>10000
175654	205 226	3.07	3.31	4.05	385	1	0.26	6	380	56	105	0.16	28	10	554
175657	205 226	2.31	1.24	0.35	270	1	0.03	55	320	20	69	0.09	112	< 10	200
175658	205 226	1.82	1.32	0.31	115	1	0.06	50	180	20	12	0.10	136	< 10	390
175659	205 226	2.05	2.14	0.49	1115	1	0.06	46	490	16	99	0.18	142	< 10	152
175660	205 226	1.45	1.26	0.30	310	3	0.02	35	2920	16	73	0.09	197	< 10	190
175661	205 226	1.94	1.49	0.35	590	3	0.03	40	1390	16	155	0.11	234	< 10	78
175662	205 226	1.61	1.64	0.33	220	2	0.03	39	2210	92	81	0.11	217	< 10	1540
175663	205 226	3.35	2.52	0.54	555	7	0.07	24	500	2000	109	0.13	115	10	>10000
175677	205 226	3.17	1.41	0.32	125	92	0.06	198	>10000	74	72	0.11	1250	10	1435
175678	205 226	4.62	1.69	0.98	235	12	0.11	55	2600	22	44	0.09	166	10	548
175679	205 226	5.38	0.72	1.54	625	7	0.05	19	3960	70	54	0.06	140	10	204
175680	205 226	5.53	0.24	0.48	1290	4	0.04	16	430	< 2	89	0.12	120	< 10	46
175681	205 226	4.14	0.62	0.53	1795	10	0.02	16	1140	16	126	0.10	98	10	40
175682	205 226	6.66	0.20	0.69	2960	15	0.01	14	1780	4	216	0.07	106	10	24
175683	205 226	3.04	3.11	5.29	1735	8	0.36	11	320	4	229	0.10	120	10	114

CERTIFICATION: Hank Boudler



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CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175684	205 226	< 5	1	3.2	10	< 0.2	7.77	3930	2.0	10	2.22	0.5	11	47	33
175685	205 226	< 5	1	1.0	10	< 0.2	6.40	560	2.0	< 2	0.39	< 0.5	10	67	22
175686	205 226	95	30	9.8	90	1.4	3.92	140	1.5	< 2	3.52	< 0.5	16	121	38
175687	205 226	< 5	1	0.2	10	< 0.2	6.01	1610	1.5	< 2	0.59	< 0.5	11	128	24
175688	205 226	< 5	4	0.2	10	< 0.2	6.37	860	2.0	< 2	0.44	< 0.5	9	82	23
175689	205 226	< 5	2	0.2	< 10	< 0.2	6.85	1500	2.0	< 2	0.61	< 0.5	8	130	24
175690	205 226	< 5	1	0.2	< 10	< 0.2	6.99	1220	2.0	< 2	0.75	< 0.5	8	94	17
175691	205 226	< 5	1	1.6	< 10	< 0.2	7.45	1360	2.0	8	0.65	< 0.5	8	108	35
175692	205 226	< 5	1	1.0	10	< 0.2	7.96	2170	2.5	< 2	1.17	< 0.5	8	73	16
175693	205 226	< 5	36	5.6	1220	< 0.2	1.46	250	0.5	< 2	1.86	39.0	3	356	13
175694	205 226	< 5	6	3.2	130	0.4	7.22	430	2.5	< 2	2.00	< 0.5	5	127	9
175695	205 226	15	1	1.4	30	< 0.2	2.02	210	1.5	< 2	6.66	< 0.5	5	245	54
175696	205 226	45	1	1.6	80	< 0.2	2.12	130	2.5	< 2	4.30	< 0.5	6	188	58
175697	205 226	45	1	1.2	70	0.4	2.30	790	1.5	< 2	1.01	< 0.5	6	312	52
175698	205 226	5	2	1.6	20	0.2	3.06	150	4.0	< 2	0.35	< 0.5	7	192	46
175699	205 226	30	1	8.2	340	1.8	2.45	100	3.5	< 2	6.18	2.0	9	250	64
175701	205 226	15	4	2.4	440	< 0.2	2.94	150	4.0	< 2	0.79	16.0	9	272	61
175702	205 226	< 5	1	0.6	350	< 0.2	6.50	500	5.5	< 2	1.12	5.0	4	188	7
175703	205 226	< 5	1	0.6	40	< 0.2	6.85	3200	5.5	< 2	1.15	1.0	5	128	8
175704	205 226	< 5	1	2.0	30	0.4	3.59	250	2.5	< 2	1.38	< 0.5	14	335	72
175705	205 226	< 5	1	0.2	10	< 0.2	3.23	680	1.0	< 2	1.07	< 0.5	10	166	98
175706	205 226	< 5	8	0.4	10	< 0.2	3.54	550	1.0	< 2	1.25	< 0.5	16	281	153
175707	205 226	< 5	1	0.4	< 10	< 0.2	3.25	550	1.0	< 2	0.55	< 0.5	8	169	44
175708	205 226	10	1	1.0	20	< 0.2	4.01	230	1.5	< 2	0.63	< 0.5	11	363	79
175709	205 226	15	1	1.2	10	0.4	4.42	290	1.5	< 2	1.12	< 0.5	12	162	79
175710	205 226	< 5	1	1.2	< 10	< 0.2	2.43	690	0.5	< 2	0.57	< 0.5	4	240	37
175711	205 226	< 5	1	0.6	30	< 0.2	2.12	300	0.5	< 2	0.30	< 0.5	6	171	135
175712	205 226	< 5	1	< 0.2	50	< 0.2	2.06	810	0.5	< 2	0.37	< 0.5	10	235	85
175713	205 226	< 5	1	0.6	10	< 0.2	2.05	690	0.5	2	0.57	< 0.5	6	181	54
175714	205 226	< 5	1	2.0	60	< 0.2	1.95	320	0.5	2	0.41	< 0.5	6	253	60
175715	205 226	< 5	1	2.6	60	0.2	1.96	260	0.5	2	0.54	< 0.5	6	190	72
175716	205 226	5	1	5.8	40	1.2	1.64	160	0.5	< 2	1.49	< 0.5	5	249	45
175717	205 226	10	8	6.2	100	1.4	1.71	160	0.5	< 2	0.61	0.5	6	215	50
175718	205 226	5	1	2.6	60	0.4	1.19	850	0.5	8	23.3	0.5	9	49	48
175719	205 226	< 5	1	2.2	120	< 0.2	2.92	200	1.5	< 2	0.79	< 0.5	10	132	71
175720	205 226	5	1	4.0	140	< 0.2	2.28	210	1.5	6	6.85	< 0.5	12	179	86
175721	205 226	< 5	1	1.8	30	< 0.2	1.76	220	1.0	8	0.19	< 0.5	7	131	145
175722	205 226	< 5	4	13.5	220	< 0.2	2.18	230	0.5	2	1.54	< 0.5	7	196	79
175723	205 226	< 5	6	2.0	20	< 0.2	1.21	200	0.5	2	>25.0	< 0.5	8	39	27
175724	205 226	< 5	8	3.8	10	< 0.2	2.81	290	1.5	< 2	2.29	< 0.5	10	223	61

CERTIFICATION: Hawthorne



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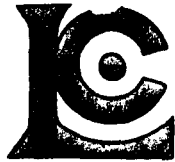
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 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175684	205 226	4.09	2.78	4.70	830	4	0.35	8	420	16	67	0.14	35	10	184
175685	205 226	3.14	2.72	2.49	310	2	0.22	4	370	< 2	19	0.13	21	< 10	84
175686	205 226	9.89	2.06	0.91	325	4	0.14	6	270	200	28	0.07	15	30	60
175687	205 226	3.79	2.07	2.62	440	3	0.23	3	330	< 2	19	0.11	23	10	98
175688	205 226	3.26	2.27	2.55	440	1	0.21	5	380	4	17	0.11	19	< 10	76
175689	205 226	2.58	2.64	2.12	425	3	0.21	6	390	< 2	21	0.11	20	< 10	68
175690	205 226	2.69	2.63	2.59	560	3	0.25	5	370	< 2	26	0.10	19	10	64
175691	205 226	2.76	2.77	3.06	410	4	0.26	5	440	4	33	0.13	21	10	64
175692	205 226	2.13	3.43	2.35	270	4	0.28	7	400	< 2	62	0.14	26	< 10	58
175693	205 226	1.12	0.69	0.25	165	33	0.03	50	60	32	27	0.05	865	< 10	2550
175694	205 226	1.94	3.19	0.62	180	5	0.45	8	390	12	63	0.18	26	< 10	18
175695	205 226	7.33	0.48	0.45	3990	< 1	0.04	23	610	4	417	0.07	89	20	70
175696	205 226	9.44	0.35	0.51	3780	9	0.03	30	310	< 2	288	0.09	124	30	186
175697	205 226	3.43	0.27	0.33	1050	7	0.04	40	220	4	130	0.09	111	< 10	208
175698	205 226	8.54	0.22	0.31	220	8	0.06	24	430	< 2	155	0.15	116	10	50
175699	205 226	8.23	0.67	1.10	3540	4	0.05	41	940	1500	136	0.11	160	30	1185
175701	205 226	2.42	1.20	0.34	480	3	0.10	28	910	140	58	0.11	123	< 10	2040
175702	205 226	2.19	2.53	0.67	395	1	0.21	6	90	272	57	0.11	6	< 10	2030
175703	205 226	1.95	2.66	0.90	255	2	0.22	10	180	20	85	0.15	13	< 10	240
175704	205 226	2.25	0.99	0.60	330	4	0.10	50	570	24	60	0.27	101	< 10	140
175705	205 226	1.84	0.97	0.96	590	1	0.11	39	300	4	66	0.15	70	< 10	82
175706	205 226	2.04	1.11	1.07	1050	3	0.13	50	330	6	89	0.16	76	< 10	88
175707	205 226	2.10	0.96	0.86	425	1	0.09	33	300	< 2	58	0.17	73	< 10	76
175708	205 226	2.92	1.30	0.93	195	5	0.11	66	360	2	71	0.23	114	< 10	154
175709	205 226	2.76	1.43	0.98	290	2	0.12	67	550	4	135	0.26	127	< 10	168
175710	205 226	1.71	0.75	0.55	245	1	0.06	33	140	< 2	104	0.14	61	< 10	58
175711	205 226	1.56	0.68	0.42	135	1	0.06	56	150	< 2	100	0.12	63	< 10	86
175712	205 226	1.30	0.73	0.35	550	2	0.06	88	270	< 2	170	0.12	64	< 10	132
175713	205 226	1.39	0.63	0.36	695	< 1	0.05	50	110	< 2	226	0.09	55	< 10	52
175714	205 226	1.25	0.70	0.36	325	5	0.05	56	280	< 2	142	0.08	80	< 10	82
175715	205 226	1.36	0.59	0.38	645	1	0.05	76	220	< 2	149	0.07	77	< 10	114
175716	205 226	1.56	0.41	0.61	960	1	0.01	46	210	8	99	0.06	66	< 10	104
175717	205 226	1.51	0.79	0.24	215	1	0.03	39	130	16	13	0.06	84	< 10	126
175718	205 226	1.12	0.45	0.29	2730	< 1	0.05	12	130	12	695	0.05	55	< 10	54
175719	205 226	1.37	1.38	0.41	1545	1	0.07	35	320	32	36	0.09	89	< 10	122
175720	205 226	1.21	1.13	0.30	880	< 1	0.04	44	240	24	234	0.09	110	< 10	162
175721	205 226	0.76	0.83	0.20	85	< 1	0.05	19	160	4	10	0.07	81	< 10	24
175722	205 226	1.08	0.96	0.20	195	1	0.09	50	100	12	145	0.08	97	< 10	150
175723	205 226	2.29	0.62	0.29	2230	< 1	0.10	33	110	14	1185	0.04	40	10	14
175724	205 226	1.51	1.48	0.35	335	1	0.10	53	840	8	152	0.12	94	< 10	30

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

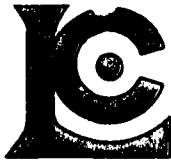
Page Number: 3-A
 Total Pages: 4
 Certificate Date: 02-NOV-96
 Invoice No.: 19637670
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175725	205 226	< 5	1	1.2	30	< 0.2	2.02	1340	1.0	10	20.9	< 0.5	8	104	36
175726	205 226	< 5	1	2.0	< 10	< 0.2	3.91	560	2.5	2	1.50	< 0.5	11	243	78
175727	205 226	< 5	1	1.6	< 10	< 0.2	3.90	1340	2.5	2	0.56	< 0.5	13	202	76
175728	205 226	< 5	6	1.2	40	< 0.2	3.52	1020	2.5	< 2	2.21	< 0.5	15	243	66
175729	205 226	< 5	1	6.2	20	< 0.2	4.73	350	3.5	2	1.01	< 0.5	17	202	56
175730	205 226	< 5	14	5.8	70	1.4	2.46	310	2.0	2	2.45	0.5	8	405	40
175731	205 226	20	40	9.4	760	2.0	5.73	230	3.5	< 2	1.48	5.5	6	192	29
175732	205 226	15	66	25	850	3.8	2.44	130	2.0	< 2	0.92	15.0	5	348	94
175733	205 226	360	356	600	>100000	>100.0	4.14	370	3.5	< 2	6.26	>500	11	190	832
175734	205 226	< 5	28	4.2	200	2.0	4.29	240	2.5	< 2	3.82	4.0	15	315	102
175735	205 226	10	36	11.0	260	1.8	3.42	150	2.0	< 2	3.15	2.5	7	355	52
175736	205 226	< 5	26	11.0	90	1.4	3.62	200	2.0	< 2	2.00	1.0	10	326	57
175737	205 226	10	1	18.5	30	< 0.2	3.97	2270	1.5	< 2	1.94	< 0.5	12	192	59
175738	205 226	5	6	31	40	0.8	1.90	360	1.5	< 2	0.25	< 0.5	16	220	76
175739	205 226	10	6	2.8	80	0.4	3.35	450	2.5	< 2	0.28	< 0.5	18	201	90
175740	205 226	15	1	1.4	30	0.4	3.43	410	2.5	< 2	0.37	< 0.5	10	170	68
175741	205 226	15	1	5.6	100	0.8	3.87	370	3.0	< 2	0.38	< 0.5	9	180	71
175742	205 226	10	6	40	470	1.4	3.23	370	3.0	< 2	0.38	< 0.5	8	199	77
175743	205 226	< 5	10	28	380	1.0	2.11	570	2.0	< 2	0.58	1.5	6	158	59
175744	205 226	< 5	8	27	470	1.0	3.37	230	5.5	< 2	0.33	< 0.5	8	212	52
175745	205 226	< 5	14	34	630	1.6	2.96	280	5.0	< 2	0.34	1.0	9	228	78
175746	205 226	< 5	12	26	1720	1.0	2.30	1570	3.0	< 2	0.93	0.5	7	71	82
175747	205 226	< 5	4	11.0	320	0.6	1.87	3850	3.0	< 2	0.57	< 0.5	7	142	44
175748	205 226	< 5	2	6.2	160	0.4	2.25	1670	3.0	2	0.32	< 0.5	7	118	39
175749	205 226	< 5	1	3.2	170	0.4	2.29	8000	4.0	< 2	0.41	< 0.5	8	93	30
175750	205 226	< 5	1	2.4	240	0.4	2.12	3900	2.5	< 2	0.27	< 0.5	7	150	30
175751	205 226	< 5	1	6.2	310	0.4	2.37	1350	3.5	< 2	0.31	< 0.5	8	97	34
175752	205 226	< 5	1	8.6	790	0.4	2.01	940	3.5	< 2	0.34	0.5	8	93	65
175753	205 226	< 5	6	12.0	1110	0.4	2.52	2400	3.5	< 2	0.28	0.5	8	124	50
175754	205 226	< 5	1	8.6	720	< 0.2	2.14	2150	3.0	< 2	0.32	0.5	7	123	44
175755	205 226	< 5	4	18.5	1240	< 0.2	2.78	530	3.0	< 2	0.73	< 0.5	9	137	66
175756	205 226	15	12	12.0	250	1.6	4.34	230	5.0	< 2	1.03	< 0.5	11	184	78
175757	205 226	10	14	12.5	200	1.6	3.37	220	2.5	6	5.94	< 0.5	10	130	55
175758	205 226	10	10	9.6	90	0.2	3.37	200	4.5	< 2	0.65	< 0.5	8	139	43
175759	205 226	10	6	8.4	40	1.0	1.51	90	1.5	< 2	13.60	0.5	6	86	31
175760	205 226	5	1	17.0	160	0.8	1.12	70	0.5	< 2	14.50	< 0.5	3	91	38
175761	205 226	150	172	310	3760	14.0	1.80	100	3.5	< 2	1.64	49.0	9	218	709
175762	205 226	120	424	88	790	4.6	4.56	90	8.5	< 2	0.52	10.0	9	330	390
175763	205 226	30	42	33	210	1.6	2.96	180	3.5	< 2	3.75	1.0	9	169	66
175769	205 226	35	66	20	1750	3.8	4.54	180	2.0	< 2	4.91	14.5	5	163	278

CERTIFICATION: Hank Becker



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
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 VANCOUVER, BC
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Page Number : 3-B
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CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
175725	205 226	2.17	0.65	0.48	2900	< 1	0.04	20	230	24	745	0.10	63	< 10	86
175726	205 226	2.44	1.79	0.45	1205	1	0.09	37	360	6	54	0.19	113	< 10	36
175727	205 226	1.72	1.97	0.42	725	< 1	0.11	35	240	14	22	0.20	153	< 10	40
175728	205 226	2.07	1.76	0.49	2820	< 1	0.04	38	480	4	78	0.18	137	< 10	66
175729	205 226	2.25	2.63	0.74	1125	1	0.10	45	350	6	32	0.23	148	< 10	42
175730	205 226	1.50	1.29	0.36	680	2	0.03	25	1310	14	75	0.11	118	< 10	110
175731	205 226	2.04	2.85	0.58	255	7	0.14	24	560	58	92	0.16	218	< 10	544
175732	205 226	1.85	1.19	0.27	160	29	0.05	93	1200	150	50	0.09	502	< 10	1600
175733	205 226	9.80	1.99	0.63	1030	37	0.09	112	3690	>10000	308	0.11	666	< 10	>10000
175734	205 226	2.24	2.15	0.79	1170	2	0.12	55	330	72	85	0.20	181	< 10	420
175735	205 226	2.86	1.55	1.06	1065	5	0.04	46	1310	46	119	0.14	160	< 10	332
175736	205 226	2.38	1.68	1.15	800	6	0.05	51	970	16	122	0.15	162	< 10	146
175737	205 226	2.42	1.57	1.13	1215	1	0.07	45	280	12	219	0.23	145	< 10	78
175738	205 226	0.94	0.74	0.30	110	< 1	0.05	53	120	10	41	0.09	88	< 10	46
175739	205 226	1.48	1.53	0.49	80	< 1	0.15	64	190	4	148	0.11	104	< 10	64
175740	205 226	1.38	1.52	0.44	105	< 1	0.17	45	180	< 2	174	0.11	125	< 10	36
175741	205 226	1.55	1.83	0.57	115	1	0.40	42	190	< 2	202	0.10	118	< 10	58
175742	205 226	1.47	1.51	0.47	110	< 1	0.42	35	160	< 2	192	0.10	124	< 10	52
175743	205 226	1.14	0.63	0.40	280	1	0.09	33	160	6	233	0.08	70	< 10	246
175744	205 226	1.94	1.72	0.49	175	1	0.24	57	360	< 2	175	0.09	119	< 10	230
175745	205 226	1.94	1.33	0.51	200	1	0.18	61	240	< 2	145	0.10	125	< 10	286
175746	205 226	1.55	0.29	0.36	265	1	0.06	61	680	< 2	387	0.07	86	< 10	232
175747	205 226	1.17	0.39	0.31	130	1	0.11	44	1360	< 2	427	0.06	83	< 10	134
175748	205 226	1.41	0.56	0.34	120	< 1	0.17	45	510	< 2	399	0.08	96	< 10	88
175749	205 226	1.26	0.64	0.41	150	< 1	0.16	42	840	< 2	358	0.08	89	< 10	116
175750	205 226	1.19	0.71	0.35	130	1	0.16	44	380	< 2	284	0.08	93	< 10	120
175751	205 226	1.50	0.70	0.38	130	1	0.15	46	760	< 2	321	0.08	96	< 10	126
175752	205 226	1.42	0.53	0.33	135	1	0.10	52	630	< 2	324	0.07	100	< 10	312
175753	205 226	1.33	0.88	0.42	155	1	0.20	59	270	< 2	334	0.09	98	< 10	368
175754	205 226	1.20	0.73	0.41	130	< 1	0.16	40	410	2	317	0.08	85	< 10	226
175755	205 226	1.62	0.94	0.41	185	1	0.18	66	420	< 2	252	0.10	98	< 10	438
175756	205 226	2.37	1.93	0.72	500	1	0.23	82	440	20	237	0.13	157	< 10	228
175757	205 226	2.70	0.74	3.16	3670	1	0.10	60	820	< 2	682	0.10	95	< 10	142
175758	205 226	1.79	1.85	0.55	260	4	0.16	58	150	12	117	0.11	103	< 10	74
175759	205 226	12.05	0.63	0.47	2000	< 1	0.22	25	40	26	313	0.03	46	< 10	24
175760	205 226	9.11	0.27	0.28	1920	7	0.07	15	10	18	301	0.03	29	< 10	46
175761	205 226	5.69	0.22	0.22	295	18	0.03	91	380	640	85	0.05	295	< 10	6900
175762	205 226	7.05	1.76	0.60	110	44	0.13	246	730	164	45	0.18	723	< 10	1440
175763	205 226	1.97	0.85	0.54	770	3	0.03	46	720	58	174	0.10	110	< 10	224
175769	205 226	1.90	1.74	0.42	485	10	0.08	21	540	240	214	0.08	164	< 10	1570

CERTIFICATION: *John P. ...*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

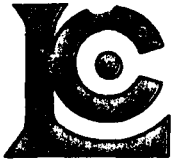
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 14-A
Total Pages: 4
Certificate Date: 02-NOV-96
Invoice No.: 19637670
P.O. Number: 6406
Account: GPW

CERTIFICATE OF ANALYSIS A9637670

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
175770	205 226	45	112	37	1420	2.6	4.12	140	2.0	< 2	1.89	14.0	5	195	128
175771	205 226	65	198	48	7280	10.6	6.36	150	1.5	< 2	3.02	42.0	5	124	263
175772	205 226	40	84	32	3860	5.8	4.30	140	2.0	< 2	2.96	32.0	4	186	115
175773	205 226	25	32	17.0	11740	3.8	6.84	190	3.0	< 2	1.92	132.0	8	166	1725

CERTIFICATION: 10/11/96



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number: 4-B
Total Pages: 4
Certificate Date: 02-NOV-96
Invoice No.: 19637670
P.O. Number: 6406
Account: GPW

CERTIFICATE OF ANALYSIS

A9637670

SAMPLE	PREP CODE		Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
175770	205	226	2.50	1.60	0.37	240	11	0.10	47	670	124	84	0.09	210	< 10	1500
175771	205	226	3.14	1.41	0.39	335	12	2.22	17	210	530	131	0.09	98	< 10	5180
175772	205	226	1.96	1.26	0.36	240	15	0.78	44	730	560	128	0.09	207	< 10	3580
175773	205	226	1.81	3.06	0.66	225	10	0.20	36	690	100	79	0.13	379	10	>10000

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 6 7 7

BILLING INFORMATION

Date: 29-OCT-96
Project: WOLVERINE REGIONAL
P.O. No.: 6410
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637677

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9637677

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637677

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE REGIONAL
P.O. #: 6410

Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

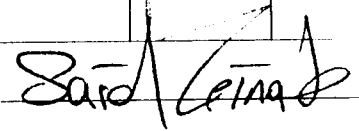
To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page : 1 of 1
Total Pages : 1
Certificate Date: 28-OCT-96
Invoice No. : 19637677
P.O. Number : 6410
Account : GP W

Project : WOLVERINE REGIONAL
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS	A9637677
--------------------------------	-----------------

SAMPLE	PREP CODE	Zn %										
171994	244 --	1.23										

CERTIFICATION: 



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 1 0

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637710

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
25	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	906.25
				Total Cost \$ 906.25
				Client Discount (25%) \$ -226.56
				Net Cost \$ 679.69
(Reg# R100938885)				GST \$ 47.58
				TOTAL PAYABLE (CDN) \$ 727.27



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC # 1-A
 Tot QC pg: 1
 Date: 04-NOV-96
 Invoice #: 19637710
 P.O. #: 6406
 GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637710

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	7.59 7.52	1190 1155	1.5 0.5	< 2 < 2	2.16 2.04	1.5 1.0	23 16	103 97	191 177
GEO-96 CHEMEX MEAN	std1	1	----- -----	58 64	5.0 4.5	180 168	6.2 5.5	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
TVB-95 CHEMEX MEAN	std1	1	440 448	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
172401	Dupl	1-01	15	8	32	100	0.6	4.88	430	5.0	4	0.62	< 0.5	13	176	78
	Origl	1-01	15	8	30	100	0.4	4.81	440	5.0	< 2	0.60	< 0.5	13	172	74

CERTIFICATION: Hank Bueler



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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

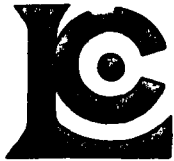
QC P: 1 B
 Tot QC rg: 1
 Date: 04-NOV-96
 Invoice #: 19637710
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637710

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	4.84	1.83	1.05	1070	9	0.99	20	730	-----	228	0.34	158	30	198
	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96 CHEMEX MEAN	std1	1	-----	-----	-----	-----	-----	-----	-----	-----	140	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
TVB-95 CHEMEX MEAN	std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
172401	Dupl	01	2.15	2.01	0.83	210	< 1	0.12	104	140	4	111	0.16	130	< 10	244
	Origl	01	2.13	1.92	0.82	205	< 1	0.10	99	110	4	113	0.16	127	< 10	242

CERTIFICATION: _____



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 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9637710

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637710

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	25	Geochem ring to approx 150 mesh
294	25	4-7 Kg crush and split
3202	25	Rock - save entire reject
285	25	ICP - HF digestion charge
287	25	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	25	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	25	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	25	Sb ppm: HCl-KClO3 digest, extrac	AAS-BROD CORR	0.2	1000
20	25	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	25	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	25	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	25	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	25	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	25	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	25	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	25	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	25	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	25	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	25	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	25	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	25	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	25	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	25	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	25	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	25	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	25	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	25	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	25	Pb ppm: 24 element, rock & core	AAS	2	10000
582	25	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	25	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	25	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	25	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	25	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1-A
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637710
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637710

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172401	205 294	15	8	30	100	0.4	4.81	440	5.0	< 2	0.60	< 0.5	13	172	74
172402	205 294	10	32	3.2	60	0.6	4.06	640	4.0	< 2	0.49	< 0.5	10	164	58
172403	205 294	10	26	7.0	10	0.6	3.78	490	4.0	< 2	0.56	< 0.5	10	149	63
172404	205 294	15	32	8.4	70	0.8	4.38	380	3.0	8	2.55	1.5	11	182	69
172405	205 294	< 5	12	5.4	40	0.4	3.83	430	4.0	< 2	0.88	1.5	10	137	54
172406	205 294	10	14	3.0	10	0.4	4.16	440	5.0	2	1.10	2.0	10	151	61
172407	205 294	< 5	48	2.6	20	1.0	3.52	>10000	3.0	2	0.87	1.5	12	160	99
172408	205 294	< 5	26	5.2	40	1.6	3.87	>10000	2.5	8	0.97	0.5	14	149	63
172409	205 294	5	6	6.6	40	0.4	3.94	780	4.0	2	0.92	< 0.5	11	145	59
172410	205 294	< 5	6	1.2	< 10	< 0.2	1.45	1180	< 0.5	14	7.86	< 0.5	5	173	32
172411	205 294	< 5	4	1.2	10	< 0.2	0.94	260	< 0.5	6	8.52	< 0.5	5	132	52
172412	205 294	< 5	1	4.0	30	< 0.2	1.77	200	0.5	2	5.19	< 0.5	7	223	46
172413	205 294	30	26	5.8	40	0.6	2.90	130	2.0	< 2	2.54	< 0.5	8	268	46
172414	205 294	30	56	6.4	130	0.8	4.48	250	3.0	< 2	2.55	2.0	7	184	38
172415	205 294	35	40	7.6	190	1.0	6.58	360	4.0	4	2.40	2.5	12	236	49
172416	205 294	< 5	1	6.0	20	< 0.2	2.16	680	0.5	8	0.36	< 0.5	8	169	67
172417	205 294	< 5	10	14.0	40	0.2	2.13	300	0.5	8	4.49	< 0.5	8	208	70
172418	205 294	< 5	8	9.8	20	< 0.2	1.81	1820	0.5	8	0.51	< 0.5	7	147	65
172419	205 294	< 5	6	11.0	30	< 0.2	2.70	730	0.5	8	1.03	< 0.5	8	130	61
172420	205 294	25	4	14.5	130	< 0.2	3.60	470	1.5	6	0.56	< 0.5	13	143	118
172421	205 294	< 5	6	9.0	60	< 0.2	2.80	180	1.5	< 2	4.14	< 0.5	19	173	143
172422	205 294	25	10	6.4	10	< 0.2	3.48	1120	2.0	< 2	0.64	< 0.5	18	200	71
172423	205 294	25	6	8.6	< 10	< 0.2	3.89	900	2.0	< 2	3.78	< 0.5	17	176	100
172424	205 294	25	1	34	10	0.2	4.05	190	2.5	< 2	6.86	< 0.5	15	128	70
172425	205 294	< 5	12	9.4	110	1.0	1.87	130	2.0	6	2.92	0.5	8	188	43

CERTIFICATION:

Hank Buckler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-B
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637710
 P.O. Number: 6406
 Account: GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637710

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172401	205 294	2.13	1.92	0.82	205	< 1	0.10	99	110	4	113	0.16	127	< 10	242
172402	205 294	1.73	2.10	0.60	165	< 1	0.10	45	120	6	129	0.12	110	< 10	126
172403	205 294	1.50	1.66	0.52	100	< 1	0.09	59	110	< 2	88	0.12	103	< 10	80
172404	205 294	2.08	1.79	1.05	1005	< 1	0.13	73	1240	4	454	0.07	97	< 10	92
172405	205 294	1.69	1.50	0.66	400	< 1	0.10	60	170	< 2	175	0.08	97	< 10	106
172406	205 294	1.82	1.69	0.88	355	< 1	0.09	50	130	4	179	0.12	113	< 10	90
172407	205 294	1.44	0.56	0.55	275	< 1	0.07	51	120	4	159	0.11	136	< 10	56
172408	205 294	1.59	0.39	0.54	250	< 1	0.07	46	100	6	184	0.07	74	< 10	82
172409	205 294	1.65	1.61	0.67	290	< 1	0.08	39	140	6	99	0.13	102	< 10	172
172410	205 294	0.74	0.43	0.30	595	< 1	0.05	28	680	6	642	0.04	52	10	30
172411	205 294	1.33	0.41	0.16	1085	< 1	0.03	22	70	16	375	0.03	32	< 10	76
172412	205 294	1.57	0.79	0.27	990	< 1	0.02	29	940	18	183	0.06	76	10	60
172413	205 294	2.16	1.44	0.34	450	5	0.03	42	2320	26	128	0.14	184	10	86
172414	205 294	2.36	2.23	0.55	430	8	0.06	37	890	48	132	0.13	156	10	240
172415	205 294	3.03	3.20	0.90	380	8	0.10	39	560	44	112	0.20	167	10	270
172416	205 294	0.80	0.99	0.22	85	< 1	0.09	49	150	6	70	0.06	96	< 10	44
172417	205 294	1.68	1.01	0.26	565	< 1	0.10	44	890	8	297	0.05	98	< 10	38
172418	205 294	0.71	0.78	0.25	125	< 1	0.09	41	100	14	92	0.05	74	< 10	16
172419	205 294	1.06	0.95	0.34	170	< 1	0.09	42	210	6	107	0.07	83	< 10	30
172420	205 294	2.77	1.65	0.50	420	< 1	0.07	67	200	28	22	0.11	114	< 10	244
172421	205 294	1.70	1.26	0.40	2270	2	0.04	46	610	140	148	0.11	106	< 10	66
172422	205 294	1.54	1.73	0.52	345	< 1	0.06	64	490	18	24	0.15	128	< 10	28
172423	205 294	2.06	1.73	0.69	2880	< 1	0.05	28	520	44	105	0.25	140	10	26
172424	205 294	4.56	1.93	1.48	3620	< 1	0.07	37	280	42	148	0.20	103	10	52
172425	205 294	2.12	0.99	0.26	390	1	0.02	20	2390	34	122	0.08	110	10	136

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 1 7

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637717

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
16	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	580.00
				Total Cost \$ 580.00
				Client Discount (25%) \$ 145.00
				Net Cost \$ 435.00
				(Reg# R100938885) GST \$ 30.45
				TOTAL PAYABLE (CDN) \$ 465.45



Chemex Labs Ltd.

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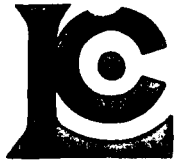
QC I : 1-A
 Tot QC Pg: 1
 Date: 04-NOV-96
 Invoice #: 19637717
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637717

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	----	----	----	----	----	7.92 7.52	1210 1155	1.5 0.5	< 2 < 2	2.19 2.04	0.5 1.0	21 16	102 97	192 177
GEO-96 CHEMEX MEAN	Std1	1	----	56 64	4.8 4.5	160 168	5.6 5.5	----	----	----	----	----	----	----	----	----
TVB-95 CHEMEX MEAN	Std1	1	440 448	----	----	----	----	----	----	----	----	----	----	----	----	----
172312	Dupl-01 Origl-01		< 5 < 5	4 1	6.8 6.6	60 70	< 0.2 < 0.2	6.81 5.71	730 940	2.0 1.5	< 2 < 2	0.33 0.27	0.5 0.5	3 3	140 120	8 7

CERTIFICATION: _____



Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
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 P.O. BOX 49066, THE BENTALL CENTRE
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 V7X 1C4

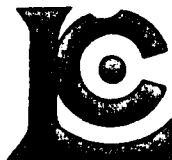
QC F 1 B
 Tot QC mg: 1
 Date: 04-NOV-96
 Invoice #: 19637717
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637717

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 1 --- ---	4.94 4.41	1.84 1.86	1.07 1.03	1090 927	11 9	1.00 1.03	24 20	670 648	----- -----	235 226	0.34 0.35	161 156	20 20	206 186
GEO-96 CHEMEX MEAN	Std1 1 --- ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	140 120	----- -----	----- -----	----- -----	----- -----	----- -----
TVB-95 CHEMEX MEAN	Std1 1 --- ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
172312	Dupl-01 Origl-01	0.88 0.75	2.84 2.29	0.19 0.15	70 55	1 1	0.18 0.15	7 6	900 710	26 26	81 67	0.12 0.10	37 31	< 10 < 10	124 108

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9637717

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637717

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh
294	16	4-7 Kg crush and split
3202	16	Rock - save entire reject
285	16	ICP - HF digestion charge
287	16	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	16	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	16	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	16	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	16	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	16	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	16	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	16	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	16	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	16	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	16	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	16	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	16	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	16	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	16	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	16	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	16	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	16	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	16	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	16	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	16	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	16	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	16	Pb ppm: 24 element, rock & core	AAS	2	10000
582	16	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	16	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	16	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	16	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	16	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

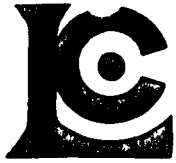
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1-A
 Total Pages: 1
 Certificate Date: 04 NOV-96
 Invoice No.: 19637717
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9637717

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172312	205 294	< 5	1	6.6	70	< 0.2	5.71	940	1.5	< 2	0.27	0.5	3	120	7
172313	205 294	< 5	4	5.0	50	< 0.2	7.83	2660	2.0	< 2	0.26	0.5	6	119	9
172314	205 294	< 5	1	3.2	50	< 0.2	7.09	3420	1.5	< 2	0.21	< 0.5	4	93	7
172315	205 294	< 5	48	13.5	1450	2.6	3.00	110	1.5	< 2	1.70	21.0	6	312	94
172316	205 294	< 5	38	28	5100	2.2	2.19	120	1.0	< 2	1.19	95.0	7	249	81
172317	205 294	< 5	38	36	1980	3.6	3.20	80	1.5	< 2	0.95	35.0	7	269	96
172318	205 294	< 5	40	38	1430	4.8	3.72	100	2.0	< 2	1.48	23.0	9	233	116
172319	205 294	< 5	32	26	2990	3.0	2.76	100	1.5	< 2	1.53	52.0	7	223	102
172320	205 294	< 5	48	28	2510	3.4	4.26	580	1.5	< 2	0.98	44.5	6	212	81
172321	205 294	< 5	8	11.5	490	4.8	7.50	810	1.5	< 2	0.18	7.0	8	119	13
172322	205 294	< 5	1	9.8	150	1.6	6.64	990	1.5	< 2	1.21	4.0	8	118	5
172323	205 294	< 5	1	3.6	10	0.6	7.28	1660	2.5	< 2	1.55	< 0.5	5	109	6
172324	205 294	< 5	1	1.0	10	0.6	6.26	1320	1.5	< 2	1.30	< 0.5	4	95	8
172325	205 294	< 5	12	1.0	50	0.6	6.00	1570	1.5	< 2	0.82	< 0.5	4	108	9
172326	205 294	< 5	4	0.6	640	0.2	6.59	1030	2.0	< 2	1.60	6.0	4	88	7
172327	205 294	< 5	1	1.6	20	0.4	6.75	1410	2.0	< 2	1.51	< 0.5	4	87	9

CERTIFICATION: *Hank P. [Signature]*



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Page: 1 of 1
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637717
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637717

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172312	205 294	0.75	2.29	0.15	55	1	0.15	6	710	26	67	0.10	31	< 10	108
172313	205 294	0.87	2.94	0.16	90	3	0.22	11	1170	24	77	0.17	68	< 10	50
172314	205 294	1.03	2.70	0.14	70	1	0.20	7	890	26	77	0.14	38	< 10	86
172315	205 294	1.80	1.20	0.19	65	16	0.06	113	7940	32	95	0.11	588	< 10	3020
172316	205 294	2.55	0.86	0.14	65	13	0.05	130	5550	56	76	0.08	756	< 10	>10000
172317	205 294	2.87	1.13	0.20	50	13	0.11	108	4350	102	58	0.10	567	10	4460
172318	205 294	2.62	1.37	0.23	55	28	0.12	119	5390	42	65	0.12	699	< 10	3250
172319	205 294	1.75	1.08	0.18	50	18	0.08	113	7020	20	64	0.11	680	< 10	6770
172320	205 294	1.83	1.76	0.15	40	35	0.14	126	4480	46	75	0.10	981	< 10	4930
172321	205 294	2.04	2.95	0.16	255	1	0.24	45	640	460	57	0.14	59	< 10	2140
172322	205 294	2.20	2.87	0.22	560	1	0.18	81	620	440	77	0.13	24	< 10	2510
172323	205 294	1.35	3.41	0.54	310	3	0.15	38	690	44	71	0.17	30	10	940
172324	205 294	1.56	2.88	0.35	415	4	0.13	5	820	14	79	0.13	36	< 10	38
172325	205 294	1.50	2.58	0.25	210	1	0.21	5	700	14	61	0.12	29	< 10	56
172326	205 294	1.30	3.12	0.34	325	3	0.14	3	660	16	93	0.15	33	< 10	784
172327	205 294	1.46	3.18	0.38	295	3	0.14	7	890	26	69	0.15	43	< 10	60

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 2 5

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

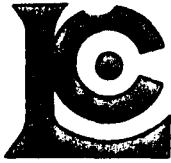
Billing: For analysis performed on
Certificate A9637725

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
39	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	1413.75
				Total Cost \$ 1413.75
				Client Discount (25%) \$ -353.44
				Net Cost \$ 1060.31
				(Reg# R100938885) GST \$ 74.22
				TOTAL PAYABLE (CDN) \$ 1134.53



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QC P. 1-A
 Tot QC rg: 1
 Date: 04 NOV-96
 Invoice #: 19637725
 P.O. #: 6406
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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637725

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
BL-C CHEMEX MEAN	Blnk	1	< 5 < 5	---	---	---	---	---	---	---	---	---	---	---	---	---
G96-TOT G96-TOT CHEMEX MEAN	Std1 Std2	1 1	---	---	---	---	---	7.90 7.70 7.52	1220 1210 1155	1.5 1.5 0.5	< 2 6 < 2	2.15 2.18 2.04	1.0 0.5 1.0	21 23 16	101 99 97	193 192 177
GEO-96 GEO-96 CHEMEX MEAN	Std1 Std2	1 1	---	58 60 64	4.8 4.6 4.5	200 170 168	6.0 6.0 5.5	---	---	---	---	---	---	---	---	---
SIO2-3 CHEMEX MEAN	Blnk	1	---	---	---	< 10 19	---	---	---	---	---	---	---	---	---	---
SIO2-G2 CHEMEX MEAN	Blnk	1	---	1 2	< 0.2 < 0.2	---	< 0.2 < 0.2	---	---	---	---	---	---	---	---	---
SIO2-T3 CHEMEX MEAN	Blnk	1	---	---	---	---	0.30 0.24	50 13	< 0.5 < 0.5	< 2 < 2	0.03 0.01	< 0.5 < 0.5	1 < 1	2 5	3 2	
SL-96 CHEMEX MEAN	Std2	1	740 765	---	---	---	---	---	---	---	---	---	---	---	---	---
TVB-95 CHEMEX MEAN	Std1	1	450 448	---	---	---	---	---	---	---	---	---	---	---	---	---
172351	Dupl-01 Origl-01		20 20	8 6	4.4 4.6	150 120	1.0 1.0	5.36 5.07	170 120	2.0 2.0	< 2 < 2	0.95 0.96	0.5 < 0.5	11 11	210 198	73 70

CERTIFICATION: Hart Becker



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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A9637725

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637725

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

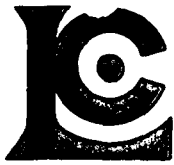
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	39	Geochem ring to approx 150 mesh
294	39	4-7 Kg crush and split
3202	39	Rock - save entire reject
285	39	ICP - HF digestion charge
287	39	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	39	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	39	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	39	Sb ppm: HCl-KClO3 digest, extrac	AAS-BRGD CORR	0.2	1000
20	39	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	39	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	39	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	39	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	39	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	39	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	39	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	39	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	39	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	39	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	39	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	39	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	39	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	39	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	39	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	39	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	39	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	39	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	39	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	39	Pb ppm: 24 element, rock & core	AAS	2	10000
582	39	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	39	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	39	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	39	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	39	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Page Number: 1-A
 Total Pages: 11
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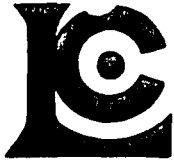
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637725

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172351	205 294	20	6	4.6	120	1.0	5.07	120	2.0	< 2	0.96	< 0.5	11	198	70
172352	205 294	< 5	1	< 0.2	< 10	0.4	8.19	1390	2.0	< 2	2.02	< 0.5	16	218	29
172353	205 294	< 5	1	< 0.2	20	0.6	7.89	140	2.0	< 2	1.76	0.5	17	172	45
172354	205 294	< 5	1	< 0.2	20	0.4	6.41	1310	2.0	< 2	1.26	0.5	12	198	75
172355	205 294	< 5	1	2.2	30	0.6	6.93	1160	2.0	< 2	2.97	1.0	12	181	51
172356	205 294	< 5	1	2.0	40	0.6	6.72	1540	2.0	< 2	2.70	2.0	14	199	51
172357	205 294	< 5	1	1.8	20	0.6	7.43	240	2.5	< 2	2.56	1.5	14	155	53
172358	205 294	< 5	1	1.8	30	0.4	6.74	1490	2.0	< 2	8.20	1.0	14	128	32
172359	205 294	5	6	8.6	120	1.4	2.35	130	0.5	< 2	0.35	0.5	5	163	48
172360	205 294	10	22	26	130	1.8	3.32	200	1.5	< 2	0.53	3.5	8	167	74
172361	205 294	< 5	24	42	200	1.6	2.53	160	1.0	< 2	0.89	12.0	5	183	85
172362	205 294	20	24	20	170	1.8	3.73	240	1.5	< 2	0.62	6.0	8	218	81
172363	205 294	25	24	16.0	70	1.4	3.53	180	1.5	< 2	0.17	2.0	7	159	40
172364	205 294	30	28	17.0	90	1.4	3.23	180	1.0	< 2	0.51	4.5	7	171	59
172365	205 294	15	10	13.0	110	1.4	4.06	270	1.5	< 2	0.79	6.0	9	171	68
172366	205 294	10	14	7.8	50	1.0	3.29	160	1.0	< 2	0.33	1.0	7	241	43
172367	205 294	20	18	9.4	80	1.0	4.07	200	1.5	< 2	0.17	0.5	9	177	70
172368	205 294	45	44	14.0	130	1.8	3.40	180	1.5	< 2	1.22	2.5	10	223	82
172369	205 294	15	52	14.0	170	1.8	2.16	170	1.0	< 2	1.63	11.0	4	273	85
172370	205 294	20	92	13.0	540	4.0	2.42	140	1.5	2	2.07	28.0	5	323	143
172371	205 294	25	40	4.6	300	3.4	2.28	140	1.0	< 2	2.37	12.5	6	286	130
172372	205 294	25	48	14.0	270	2.2	2.00	130	0.5	< 2	1.80	13.0	5	304	104
172373	205 294	20	66	9.4	360	2.8	2.42	250	1.0	2	1.85	17.5	6	280	113
172374	205 294	15	6	5.4	90	0.8	3.69	120	1.5	< 2	0.38	0.5	6	200	52
172375	205 294	15	4	6.0	100	0.8	3.73	120	1.5	< 2	0.41	0.5	6	214	63
172376	205 294	20	8	7.0	190	0.8	3.53	110	1.5	< 2	0.61	1.5	8	250	83
172377	205 294	20	12	12.0	190	0.8	3.58	160	1.5	< 2	0.43	2.5	9	245	91
172378	205 294	15	26	14.0	250	1.6	2.63	100	1.0	2	1.93	13.0	6	213	101
172379-A	205 294	80	30	7.8	190	0.6	4.66	190	1.5	< 2	0.84	< 0.5	10	151	49
172379-B	205 294	20	1	5.6	140	0.4	4.88	270	2.0	< 2	0.99	< 0.5	9	165	48
172380	205 294	< 5	1	8.8	180	0.4	4.58	210	2.0	< 2	0.56	0.5	12	140	50
172381	205 294	< 5	1	5.0	140	0.6	4.97	230	2.0	< 2	0.55	< 0.5	12	120	58
172382	205 294	100	58	12.5	90	1.4	3.15	220	1.0	< 2	0.25	< 0.5	8	175	36
172383	205 294	205	350	28	50	1.2	3.49	190	1.0	< 2	0.20	0.5	7	173	34
172384	205 294	30	68	8.6	180	2.0	3.30	230	1.5	4	0.91	7.5	9	227	84
172385	205 294	55	210	26	580	5.2	2.42	100	1.0	4	2.52	19.0	8	269	125
172386	205 294	25	146	14.5	240	3.8	2.28	140	1.0	4	3.08	9.0	7	311	127
172387	205 294	140	304	26	110	2.4	3.77	180	1.5	4	0.44	5.5	9	152	65
175038	205 294	25	590	9.0	50	1.8	4.86	2320	2.0	< 2	5.84	0.5	68	886	84

CERTIFICATION:

Hartl Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

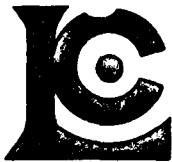
Page Number : 1-B
 Total Pages : 1
 Certificate Date: 04 NOV-96
 Invoice No. : 19637725
 P.O. Number : 6406
 Account : GPW

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637725

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172351	205 294	3.32	1.81	0.61	285	4	0.12	52	650	28	58	0.20	204	< 10	34
172352	205 294	4.13	2.91	1.07	475	< 1	0.22	32	510	12	100	0.30	87	10	96
172353	205 294	4.76	3.15	0.94	440	1	0.21	38	680	10	115	0.29	110	10	114
172354	205 294	2.78	2.41	0.95	235	3	0.15	50	830	16	62	0.22	237	< 10	202
172355	205 294	3.61	2.45	1.08	435	3	0.14	41	720	12	128	0.23	190	10	130
172356	205 294	3.12	2.39	1.25	350	4	0.14	43	720	20	120	0.19	222	10	156
172357	205 294	3.48	2.59	1.06	340	3	0.16	51	750	10	97	0.22	212	10	180
172358	205 294	2.73	2.47	1.40	475	3	0.16	29	580	10	203	0.16	114	10	106
172359	205 294	1.57	0.65	0.19	75	5	0.06	31	1070	10	56	0.10	125	< 10	90
172360	205 294	1.98	1.00	0.22	65	17	0.10	70	2220	8	97	0.10	308	< 10	290
172361	205 294	1.27	0.84	0.16	60	28	0.07	108	4120	28	167	0.09	769	< 10	794
172362	205 294	2.14	1.20	0.31	80	14	0.11	78	2360	10	88	0.14	441	< 10	490
172363	205 294	1.37	1.31	0.29	25	7	0.09	42	750	12	75	0.15	232	< 10	220
172364	205 294	2.10	1.01	0.42	125	9	0.08	52	460	8	54	0.12	251	< 10	304
172365	205 294	2.12	1.50	0.62	200	10	0.10	76	630	10	80	0.16	352	< 10	422
172366	205 294	1.73	1.09	0.25	60	6	0.07	45	1320	4	71	0.12	170	< 10	142
172367	205 294	2.88	1.36	0.31	65	7	0.11	46	460	8	54	0.15	182	< 10	82
172368	205 294	2.90	1.07	0.67	325	17	0.08	72	1920	12	108	0.12	254	10	198
172369	205 294	1.37	0.63	0.37	245	19	0.05	88	5680	8	115	0.05	539	< 10	816
172370	205 294	1.45	0.75	0.59	305	43	0.05	162	5930	20	187	0.10	1250	< 10	2280
172371	205 294	1.49	0.63	0.85	520	19	0.05	119	4990	14	156	0.08	655	< 10	1045
172372	205 294	1.58	0.53	0.40	255	17	0.04	108	6060	10	132	0.08	636	< 10	966
172373	205 294	1.55	0.69	0.63	370	32	0.04	127	4500	16	137	0.10	981	< 10	1470
172374	205 294	2.51	1.29	0.29	50	1	0.10	50	1750	12	52	0.12	192	< 10	162
172375	205 294	2.52	1.20	0.34	135	3	0.09	36	1820	8	56	0.10	162	< 10	68
172376	205 294	2.83	1.18	0.30	135	5	0.09	43	2730	8	48	0.12	214	< 10	120
172377	205 294	2.84	1.15	0.29	90	9	0.10	53	2010	14	81	0.11	250	< 10	196
172378	205 294	1.52	0.90	0.77	165	33	0.03	108	4460	26	239	0.08	630	< 10	1170
172379-A	205 294	2.25	1.79	0.77	320	2	0.11	32	870	8	48	0.15	86	< 10	80
172379-B	205 294	2.47	1.85	0.86	355	< 1	0.09	29	600	2	55	0.16	90	< 10	70
172380	205 294	1.78	1.97	0.69	215	1	0.09	35	490	6	44	0.19	124	< 10	56
172381	205 294	2.76	1.83	1.00	435	< 1	0.10	35	500	2	55	0.17	75	< 10	66
172382	205 294	1.71	1.05	0.23	35	2	0.07	40	1100	12	69	0.10	173	< 10	154
172383	205 294	1.55	1.31	0.28	60	1	0.08	29	730	8	77	0.12	132	< 10	122
172384	205 294	1.99	1.13	0.37	365	12	0.08	88	3300	14	104	0.13	508	< 10	554
172385	205 294	1.60	0.78	0.64	320	27	0.04	134	7950	16	215	0.09	792	< 10	1790
172386	205 294	1.34	0.81	0.36	160	15	0.04	129	>10000	14	303	0.07	669	< 10	828
172387	205 294	2.08	1.47	0.32	25	12	0.11	71	2040	20	90	0.15	461	< 10	382
175038	205 294	8.78	1.30	2.66	2100	5	0.15	637	2800	14	182	0.14	206	30	138

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 2 6

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637726

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
4	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	145.00
				Total Cost \$ 145.00
				Client Discount (25%) \$ -36.25
				Net Cost \$ 108.75
				(Reg# R100938885) GST \$ 7.61
				TOTAL PAYABLE (CDN) \$ 116.36



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9637726

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637726

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

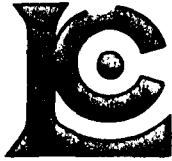
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 2-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
294	4	4-7 Kg crush and split
3202	4	Rock - save entire reject
285	4	ICP - HF digestion charge
287	4	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	4	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	4	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	4	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	4	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	4	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	4	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	4	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	4	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	4	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	4	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	4	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	4	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	4	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	4	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	4	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	4	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	4	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	4	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	4	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	4	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	4	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	4	Pb ppm: 24 element, rock & core	AAS	2	10000
582	4	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	4	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	4	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	4	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	4	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 02 NOV-96
 Invoice No. : 19637726
 P.O. Number : 6406
 Account : GP W

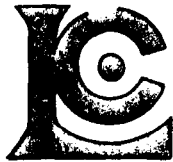
Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637726

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172310	205 294	10	1	0.8	< 10	0.4	3.83	920	1.0	4	1.21	< 0.5	11	124	68
172311	205 294	< 5	1	1.4	< 10	< 0.2	4.05	690	2.0	2	2.73	< 0.5	12	89	73
175655	205 294	< 5	12	0.6	40	0.2	2.48	800	0.5	< 2	0.27	< 0.5	17	207	79
175656	205 294	< 5	8	0.8	30	< 0.2	2.16	680	0.5	< 2	0.14	< 0.5	8	178	80
175657	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175658	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175659	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175660	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175661	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175662	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175663	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175664	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
175665	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed

CERTIFICATION:

David Buckler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

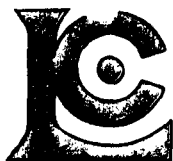
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 Total Pages : 1
 Certificate Date: 02 NOV-96
 Invoice No. : 19637726
 P.O. Number : 6406
 Account : GPW

Project : WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637726

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172310	205 294	2.27	1.91	0.72	500	< 1	0.09	24	270	10	132	0.17	124	10	82
172311	205 294	2.52	2.00	0.82	725	< 1	0.07	18	330	10	89	0.19	107	10	32
175655	205 294	3.27	0.55	0.34	140	9	0.05	92	430	10	140	0.14	74	10	138
175656	205 294	2.93	0.40	0.26	215	5	0.04	92	170	2	73	0.13	74	10	72
175657	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175658	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175659	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175660	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175661	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175662	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175663	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175664	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
175665	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists **Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 2 7

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

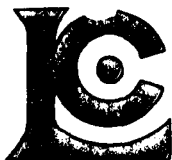
Billing: For analysis performed on
Certificate A9637727

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
19	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	688.75
				Total Cost \$ 688.75
				Client Discount (25%) \$ -172.19
				Net Cost \$ 516.56
				(Reg# R100938885) GST \$ 36.16
				TOTAL PAYABLE (CDN) \$ 552.72



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F 1 A
 Tot Qc . g: 1
 Date: 04-NOV-96
 Invoice #: 19637727
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637727

STD/DUP/BLANK DESCRIPTION	QC PAGE TYPE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	Std1 1	-----	-----	-----	-----	-----	7.76	1180	1.5	< 2	2.19	1.0	22	100	190
	---	---	---	---	---	---	7.52	1155	0.5	< 2	2.04	1.0	16	97	177
GEO-96 CHEMEX MEAN	Std1 1	-----	60	5.0	190	5.2	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	---	64	4.5	168	5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
TVB-95 CHEMEX MEAN	Std1 1	450	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	---	448	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
172337	Dupl-01	10	1	1.4	10	0.4	2.01	460	0.5	< 2	0.28	< 0.5	7	172	76
	Origl-01	5	1	1.6	10	0.4	2.06	590	0.5	< 2	0.28	< 0.5	7	186	79

CERTIFICATION:

[Handwritten signature]



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Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC #: 1 B
 Total QC #: 1
 Date: 04 NOV-96
 Invoice #: 19637727
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE A9637727

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT	Std1	1	4.85	1.92	1.08	1095	9	1.01	24	730	-----	231	0.36	161	30	204
CHEMEX MEAN	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	138	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----
TVB-95	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHEMEX MEAN	---	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
172337	Dupl-01	01	4.21	0.46	0.35	245	6	0.04	34	300	< 2	197	0.10	80	< 10	84
	Origl-01	01	4.36	0.48	0.35	255	6	0.04	36	300	8	196	0.10	84	< 10	88

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9637727

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637727

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

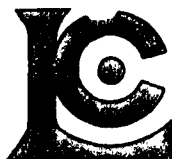
Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	19	Geochem ring to approx 150 mesh
294	19	4-7 Kg crush and split
3202	19	Rock - save entire reject
285	19	ICP - HF digestion charge
287	19	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	19	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	19	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	19	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	19	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	19	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	19	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	19	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	19	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	19	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	19	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	19	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	19	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	19	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	19	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	19	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	19	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	19	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	19	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	19	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	19	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	19	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	19	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	19	Pb ppm: 24 element, rock & core	AAS	2	10000
582	19	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	19	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	19	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	19	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	19	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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 VANCOUVER, BC
 V7X 1C4

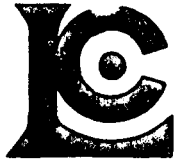
Page: 11-A
 Total Pages: 11
 Certificate Date: 04-NOV-96
 Invoice No.: 19637727
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637727

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172337	205 294	5	1	1.6	10	0.4	2.06	590	0.5	< 2	0.28	< 0.5	7	186	79
172338	205 294	10	1	1.6	10	0.4	1.86	310	0.5	2	0.13	< 0.5	6	182	78
172339	205 294	30	24	10.0	90	3.6	2.30	210	3.0	< 2	0.90	0.5	6	269	86
172340	205 294	2760	308	32	2230	25.0	2.04	120	2.0	2	1.58	95.0	15	189	1295
172341	205 294	15	46	8.6	240	1.2	3.03	120	2.5	< 2	0.62	3.0	6	189	56
172342	205 294	20	22	6.6	80	1.0	3.35	240	2.0	< 2	1.81	0.5	6	166	33
172343	205 294	10	24	4.2	120	1.0	4.76	290	3.0	< 2	2.13	3.5	6	138	32
172344	205 294	35	40	9.8	870	1.4	6.44	300	3.5	6	0.66	3.0	6	170	22
172345	205 294	100	96	36	3100	18.6	3.36	160	2.5	< 2	3.98	206	11	154	1130
172451	205 294	105	192	42	620	3.0	2.70	150	4.0	< 2	3.64	14.0	7	222	288
172452	205 294	75	28	66	270	1.2	4.23	350	4.0	< 2	4.52	17.0	12	148	137
172453	205 294	90	44	24	130	1.2	2.57	220	3.0	< 2	1.00	5.5	5	190	43
172454	205 294	75	46	35	200	1.4	2.83	220	3.5	< 2	0.47	3.0	4	206	52
172455	205 294	125	54	130	2430	9.2	1.59	170	2.0	2	1.49	42.5	4	372	439
172456	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
172457	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
172458	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
172459	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
172460	205 294	65	64	37	4630	15.2	6.78	400	4.5	12	7.56	41.0	9	120	806
172461	205 294	< 5	1	10.5	170	0.4	7.22	1050	2.0	8	2.08	2.5	9	66	21
172462	205 294	5	10	1.2	150	0.4	7.48	560	2.0	10	1.09	2.0	10	33	36
172463	205 294	< 5	1	2.8	170	0.4	7.46	380	2.0	2	1.38	4.0	10	58	73
172464	205 294	< 5	1	3.0	< 10	0.2	7.62	1260	1.5	8	0.58	< 0.5	14	55	15

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists *Geochemists* Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page Number: 1-B
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637727
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637727

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172337	205 294	4.36	0.48	0.35	255	6	0.04	36	300	8	196	0.10	84	< 10	88
172338	205 294	3.70	0.26	0.31	585	2	0.03	23	240	4	56	0.09	77	< 10	56
172339	205 294	2.39	0.81	0.53	280	3	0.02	55	610	12	61	0.08	155	< 10	198
172340	205 294	10.50	0.87	0.68	660	6	0.02	54	1430	4100	84	0.07	168	30	>10000
172341	205 294	2.05	1.50	0.35	105	10	0.06	52	1770	28	37	0.12	282	< 10	776
172342	205 294	1.45	1.77	0.38	270	3	0.06	25	1060	24	111	0.11	130	< 10	128
172343	205 294	1.48	2.49	0.56	325	8	0.08	22	550	34	136	0.13	140	< 10	374
172344	205 294	1.79	2.87	0.54	155	6	0.16	13	450	36	33	0.15	98	< 10	328
172345	205 294	5.15	1.70	0.48	635	6	0.04	21	510	1440	231	0.08	216	10	>10000
172451	205 294	3.11	1.18	0.49	460	23	0.03	111	3880	36	132	0.10	381	< 10	1330
172452	205 294	3.51	1.90	2.49	1600	10	0.07	56	530	16	140	0.17	131	10	400
172453	205 294	2.59	1.11	0.53	270	2	0.04	42	1700	10	34	0.09	107	< 10	254
172454	205 294	2.56	1.21	0.30	60	3	0.06	47	1740	10	21	0.09	114	< 10	254
172455	205 294	1.99	0.68	0.22	45	26	0.02	106	6640	220	60	0.05	508	< 10	4250
172456	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
172457	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
172458	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
172459	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
172460	205 294	3.03	3.14	4.96	710	30	0.26	33	480	256	227	0.12	344	10	4240
172461	205 294	3.44	2.44	4.62	460	3	0.26	4	450	4	75	0.15	26	10	322
172462	205 294	4.06	2.68	3.04	265	1	0.18	4	490	92	30	0.12	25	10	378
172463	205 294	3.74	2.54	2.75	390	3	0.20	3	460	256	34	0.13	24	10	506
172464	205 294	5.48	2.11	3.49	695	1	0.20	9	530	< 2	29	0.10	46	30	122

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 2 9

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637729

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
10	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	362.50
				Total Cost \$ 362.50
				Client Discount (25%) \$ -90.63
				Net Cost \$ 271.87
				(Reg# R100938885) GST \$ 19.03
				TOTAL PAYABLE (CDN) \$ 290.90



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC # 1-A
 Tot QC mg: 1
 Date: 04-NOV-96
 Invoice #: 19637729
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9637729

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	7.77 7.52	1220 1155	1.0 0.5	< 2 < 2	2.15 2.04	0.5 1.0	23 16	104 97	197 177
GEO-96 CHEMEX MEAN	std1	1	----- -----	60 64	4.6 4.5	180 168	6.0 5.5	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: Nancy B. ...



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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 British Columbia, Canada V7J 2C1
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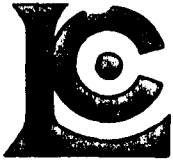
QC 1 B
 Tot Q.C. mg: 1
 Date: 04 NOV-96
 Invoice #: 19637729
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637729

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	5.01	2.01	1.09	1060	10	1.12	29	700	-----	235	0.38	157	40	202
	---	---	4.41	1.86	1.03	927	9	1.03	20	648	-----	226	0.35	156	20	186
GEO-96 CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	-----	-----	-----	140	-----	-----	-----	-----	-----
	---	---	-----	-----	-----	-----	-----	-----	-----	-----	120	-----	-----	-----	-----	-----

CERTIFICATION: _____



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CERTIFICATE

A9637729

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	10	Geochem ring to approx 150 mesh
294	10	4-7 Kg crush and split
3202	10	Rock - save entire reject
285	10	ICP - HF digestion charge
287	10	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	10	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	10	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	10	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	10	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	10	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	10	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	10	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	10	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	10	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	10	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	10	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	10	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	10	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	10	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	10	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	10	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	10	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	10	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	10	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	10	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	10	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	10	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	10	Pb ppm: 24 element, rock & core	AAS	2	10000
582	10	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	10	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	10	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	10	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	10	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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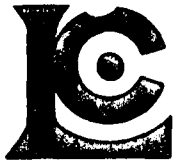
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Page: 1 of 1
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637729
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9637729

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172495	205 294	15	6	0.4	20	< 0.2	2.64	300	4.5	< 2	0.54	< 0.5	4	140	30
172496	205 294	5	1	< 0.2	< 10	< 0.2	1.43	160	3.0	< 2	2.64	< 0.5	2	126	8
172497	205 294	10	4	1.2	590	0.8	1.62	200	2.5	< 2	0.39	3.5	5	201	67
172498	205 294	20	6	5.0	70	0.4	0.71	170	2.5	< 2	21.4	< 0.5	4	67	31
172499	205 294	< 5	1	2.4	210	0.2	2.91	190	4.0	< 2	2.10	3.0	8	208	81
172500	205 294	25	10	3.0	400	0.2	2.73	130	5.0	10	7.28	5.0	12	167	67
172328	205 294	15	1	7.2	60	0.4	1.16	160	0.5	< 2	15.40	3.5	5	73	14
172329	205 294	45	28	8.6	100	1.4	1.39	150	1.5	< 2	13.90	3.5	4	61	20
172330	205 294	40	98	17.5	220	2.2	1.65	140	1.0	< 2	3.86	15.5	8	136	51
175700	205 294	10	1	15.0	80	0.8	1.02	170	0.5	< 2	17.65	< 0.5	5	63	26

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1-B
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637729
 P.O. Number: 6406
 Account: GP W

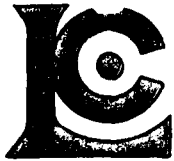
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637729

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172495	205 294	10.20	0.27	0.38	170	8	0.03	16	680	< 2	130	0.13	98	40	46
172496	205 294	15.10	0.05	0.19	480	6	0.01	7	1330	< 2	275	0.07	76	70	24
172497	205 294	1.90	0.75	0.17	100	5	0.03	34	170	94	13	0.06	100	< 10	1510
172498	205 294	5.77	0.25	0.27	2200	12	0.01	9	1320	170	234	0.02	96	40	78
172499	205 294	3.74	1.26	0.37	1045	< 1	0.04	33	940	148	50	0.14	145	20	1805
172500	205 294	7.41	0.69	0.57	2480	3	0.05	35	960	68	187	0.10	172	50	1450
172328	205 294	4.04	0.54	0.37	2620	< 1	0.06	23	40	4	261	0.03	42	30	618
172329	205 294	5.01	0.06	0.40	2210	4	0.02	28	190	4	191	0.05	72	40	604
172330	205 294	5.78	0.02	0.22	940	4	0.01	55	1650	< 2	80	0.07	168	30	2490
175700	205 294	8.51	0.42	0.29	2520	4	0.06	26	40	28	362	0.03	39	50	122

CERTIFICATION: _____

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 3 0

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

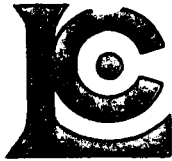
Billing: For analysis performed on
Certificate A9637730

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
16	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	580.00
				Total Cost \$ 580.00
				Client Discount (25%) \$ -145.00
				Net Cost \$ 435.00
				(Reg# R100938885) GST \$ 30.45
				TOTAL PAYABLE (CDN) \$ 465.45



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC
 Total # of g: 1
 Date: 04-NOV-96
 Invoice #: 19637730
 P.O. #: 6406
 GP W

QC DATA OF CERTIFICATE

A9637730

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	Std1	1	-----	-----	-----	-----	-----	7.88 7.52	1220 1155	1.0 0.5	< 2 < 2	2.13 2.04	0.5 1.0	21 16	102 97	195 177
GEO-96 CHEMEX MEAN	Std1	1	-----	58 64	4.6 4.5	170 168	6.8 5.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
TVB-95 CHEMEX MEAN	Std1	1	435 448	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
172465	Dupl-01 Origl-01		10 10	60 58	36 38	480 580	2.6 2.4	4.64 4.46	150 290	0.5 0.5	< 2 < 2	16.00 15.25	31.5 30.5	5 6	40 32	171 163

CERTIFICATION: Hank Buckler



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

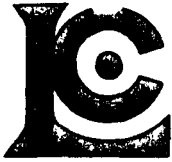
Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC # 1 B
 Tot QC Pg: 1
 Date: 04-NOV-96
 Invoice #: 19637730
 P.O. #: 6406
 GPW

QC DATA OF CERTIFICATE A9637730

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	5.03 4.41	2.07 1.86	1.09 1.03	1045 927	9 9	1.12 1.03	25 20	710 648	----- -----	236 226	0.36 0.35	162 156	40 20	206 186
GEO-96 CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	140 120	----- -----	----- -----	----- -----	----- -----	----- -----
TVB-95 CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
172465	Dupl	1-01	4.09	2.32	2.58	2040	< 1	0.08	16	160	1700	469	0.07	70	20	3930
	Orig	1-01	3.83	2.24	2.50	1890	2	0.06	16	170	1660	485	0.06	66	30	3790

CERTIFICATION: _____



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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

A9637730

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637730

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

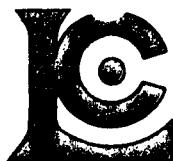
Samples submitted to our lab in Vancouver, BC.
 This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh
294	16	4-7 Kg crush and split
3202	16	Rock - save entire reject
285	16	ICP - HF digestion charge
287	16	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	16	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	16	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	16	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	16	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	16	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	16	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	16	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	16	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	16	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	16	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	16	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	16	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	16	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	16	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	16	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	16	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	16	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	16	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	16	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	16	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	16	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	16	Pb ppm: 24 element, rock & core	AAS	2	10000
582	16	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	16	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	16	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	16	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	16	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1 of 1
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637730
 P.O. Number: 6406
 Account: GP W

CERTIFICATE OF ANALYSIS A9637730

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172465	205 294	10	58	38	580	2.4	4.46	290	0.5	< 2	15.25	30.5	6	32	163
172466	205 294	< 5	14	11.5	200	0.6	2.57	280	1.5	< 2	3.18	4.0	7	134	57
172467	205 294	< 5	14	4.2	10	< 0.2	3.19	320	2.0	< 2	1.03	< 0.5	10	133	53
172468	205 294	< 5	16	2.2	20	< 0.2	4.01	420	2.0	< 2	2.30	< 0.5	10	143	87
172469	205 294	< 5	8	3.4	40	< 0.2	3.85	240	2.5	< 2	2.36	< 0.5	12	137	49
172470	205 294	< 5	24	13.5	200	< 0.2	3.74	140	2.0	< 2	2.69	1.5	13	165	55
172471	205 294	5	30	19.0	180	1.2	2.97	150	2.5	< 2	1.84	< 0.5	4	194	57
172472	205 294	15	90	34	500	2.2	4.90	170	3.5	< 2	1.22	19.5	5	211	62
172473	205 294	20	80	18.5	740	1.4	3.72	420	2.5	< 2	0.34	22.0	3	167	29
172474	205 294	5	18	3.4	20	< 0.2	7.93	1150	2.5	< 2	0.86	1.0	6	74	7
172475	205 294	5	10	2.2	10	0.4	7.86	3530	2.5	< 2	0.67	< 0.5	5	107	8
172476	205 294	< 5	12	2.0	10	0.4	8.14	990	3.0	< 2	0.70	< 0.5	6	71	7
172477	205 294	< 5	4	1.6	30	< 0.2	6.55	1470	2.5	< 2	1.04	< 0.5	4	82	5
172478	205 294	< 5	4	1.8	40	< 0.2	6.99	930	2.0	< 2	1.50	< 0.5	5	101	4
172479	205 294	< 5	4	3.8	170	0.6	6.47	820	2.0	< 2	0.59	1.0	5	93	10
172480	205 294	< 5	6	4.2	290	0.8	5.39	270	2.0	< 2	1.20	3.5	5	109	28

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

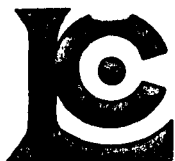
Page: 1 of 1
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637730
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637730

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172465	205 294	3.83	2.24	2.50	1890	2	0.06	16	170	1660	485	0.06	66	30	3790
172466	205 294	1.70	0.88	0.78	675	1	0.04	43	150	34	204	0.09	73	10	642
172467	205 294	1.69	1.53	0.49	305	1	0.05	52	200	8	51	0.13	106	10	140
172468	205 294	2.46	2.04	1.25	1375	< 1	0.06	35	220	6	174	0.16	121	10	114
172469	205 294	1.96	1.74	1.24	1330	< 1	0.06	44	260	< 2	99	0.16	115	10	84
172470	205 294	2.78	1.68	1.04	925	4	0.06	53	420	< 2	88	0.16	145	20	246
172471	205 294	2.27	1.35	0.59	305	6	0.04	47	1610	6	80	0.11	113	10	156
172472	205 294	2.75	2.51	0.54	105	26	0.10	96	2220	40	64	0.15	780	10	1270
172473	205 294	3.78	2.02	0.42	55	18	0.08	64	710	18	18	0.09	534	20	1190
172474	205 294	1.93	4.31	0.34	140	1	1.61	9	700	6	117	0.17	28	10	26
172475	205 294	2.60	5.15	0.28	100	4	1.39	8	570	16	103	0.19	19	10	20
172476	205 294	2.44	4.74	0.43	100	1	0.94	8	530	16	97	0.20	18	10	26
172477	205 294	1.28	3.96	0.73	155	< 1	0.17	4	640	16	89	0.15	20	< 10	46
172478	205 294	1.08	3.28	0.23	175	1	0.33	5	680	20	143	0.15	25	< 10	18
172479	205 294	0.87	3.11	0.15	110	6	0.21	21	1230	90	77	0.13	93	< 10	130
172480	205 294	1.10	2.49	0.12	240	19	0.15	50	850	30	129	0.11	228	< 10	362

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 7 3 5

BILLING INFORMATION

Date: 4-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637735

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
14	205 - Geochem ring to approx 150 mesh	2.50		
	294 - 4-7 Kg crush and split	3.50		
	3202 - Rock - save entire reject	0.50		
	ICP-T27 total digest ICP	20.00		
	983 - Au ppb FA+AA	9.75	36.25	507.50
Total Cost \$				507.50
Client Discount (25%) \$				<u>-126.88</u>
Net Cost \$				380.62
(Reg# R100938885) GST \$				<u>26.64</u>
TOTAL PAYABLE (CDN) \$				407.26



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

QC F 1 A
 Tot QC Pg: 1
 Date: 04-NOV-96
 Invoice #: 19637735
 P.O. #: 6406
 GP W

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE A9637735

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
G96-TOT CHEMEX MEAN	std1	1	----- -----	----- -----	----- -----	----- -----	----- -----	8.15 7.52	1280 1155	1.5 0.5	< 2 < 2	2.19 2.04	< 0.5 1.0	23 16	107 97	195 177
GEO-96 CHEMEX MEAN	std1	1	----- -----	60 64	4.8 4.5	180 168	5.8 5.5	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----
TVB-95 CHEMEX MEAN	std1	1	450 448	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION:

Hart-Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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QC Pg: 1-B
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 Date: 04-NOV-96
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Project: WOLVERINE
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QC DATA OF CERTIFICATE A9637735

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
G96-TOT CHEMEX MEAN	std1 ---	1 ---	5.16 4.41	2.11 1.86	1.12 1.03	1120 927	9 9	1.11 1.03	24 20	710 648	----- -----	242 226	0.38 0.35	166 156	30 20	206 186
GEO-96 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	136 120	----- -----	----- -----	----- -----	----- -----	----- -----
TVB-95 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----	----- -----

CERTIFICATION: _____



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 V7X 1C4

A9637735

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637735

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
 P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 4-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	14	Geochem ring to approx 150 mesh
294	14	4-7 Kg crush and split
3202	14	Rock - save entire reject
285	14	ICP - HF digestion charge
287	14	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	14	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	14	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	14	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	14	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	14	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	14	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	14	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	14	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	14	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	14	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	14	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	14	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	14	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	14	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	14	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	14	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	14	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	14	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	14	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	14	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	14	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	14	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	14	Pb ppm: 24 element, rock & core	AAS	2	10000
582	14	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	14	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	14	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	14	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	14	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page: 1 of 1
 Total Pages: 1
 Certificate Date: 04-NOV-96
 Invoice No.: 19637735
 P.O. Number: 6406
 Account: GPW

CERTIFICATE OF ANALYSIS A9637735

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
172481	205 294	10	14	1.0	30	0.8	3.82	240	1.0	< 2	0.54	< 0.5	14	233	92
172482	205 294	5	1	1.6	20	0.4	2.71	280	2.0	< 2	0.38	< 0.5	7	174	68
172483	205 294	< 5	1	1.0	10	< 0.2	1.10	130	2.0	< 2	0.75	< 0.5	< 1	173	32
172484	205 294	30	1	10.5	100	0.2	2.70	100	1.5	< 2	2.68	< 0.5	5	134	48
172485	205 294	< 5	4	3.0	230	< 0.2	1.80	260	1.5	< 2	0.31	< 0.5	3	244	77
172486	205 294	< 5	4	2.4	60	< 0.2	1.96	240	1.5	< 2	0.16	< 0.5	4	168	73
172487	205 294	5	4	0.8	30	< 0.2	2.03	650	0.5	< 2	0.44	< 0.5	9	254	74
172488	205 294	< 5	22	1.0	< 10	0.2	4.79	370	1.5	< 2	0.90	< 0.5	11	268	77
172489	205 294	< 5	1	1.0	< 10	0.4	3.88	330	1.0	< 2	1.54	< 0.5	9	230	59
172490	205 294	10	4	2.0	40	0.6	3.30	170	0.5	< 2	1.44	< 0.5	11	195	58
172491	205 294	5	1	3.2	20	0.4	4.28	270	1.5	12	0.89	< 0.5	18	267	88
172492	205 294	< 5	1	1.8	10	0.4	1.75	260	0.5	< 2	0.65	< 0.5	4	231	44
172493	205 294	< 5	2	1.0	10	< 0.2	2.61	400	1.0	< 2	0.48	< 0.5	6	241	55
172494	205 294	< 5	20	0.4	20	< 0.2	4.71	9450	3.0	< 2	0.14	< 0.5	8	220	26

CERTIFICATION: _____



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
 PROJECT: WOLVERINE
 P.O. BOX 49066, THE BENTALL CENTRE
 VANCOUVER, BC
 V7X 1C4

Page: 1 of 1-B
 Total: 1
 Certificate Date: 04 NOV-96
 Invoice No.: 19637735
 P.O. Number: 6406
 Account: GPW

Project: WOLVERINE
 Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9637735

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
172481	205 294	2.87	1.68	0.72	900	16	0.09	102	570	4	86	0.21	131	10	252
172482	205 294	4.04	0.80	0.35	730	20	0.07	26	170	< 2	68	0.12	78	10	44
172483	205 294	17.05	0.06	0.24	985	7	0.01	7	310	< 2	184	0.05	66	30	30
172484	205 294	6.88	0.75	0.61	5850	1	0.03	21	390	< 2	125	0.11	113	30	52
172485	205 294	1.63	0.26	0.25	200	6	0.03	33	80	8	81	0.06	92	< 10	332
172486	205 294	1.13	0.64	0.28	130	< 1	0.04	34	170	< 2	64	0.07	83	< 10	56
172487	205 294	1.52	0.62	0.39	405	5	0.05	71	200	< 2	194	0.10	64	< 10	94
172488	205 294	2.93	1.81	0.90	430	1	0.13	60	400	< 2	198	0.30	132	< 10	96
172489	205 294	2.52	1.22	0.97	385	1	0.32	53	560	6	258	0.22	105	10	116
172490	205 294	3.57	1.11	0.99	505	2	0.06	74	850	4	259	0.15	103	10	172
172491	205 294	3.76	1.65	0.95	340	< 1	0.10	98	890	2	226	0.18	141	< 10	240
172492	205 294	1.97	0.61	0.49	180	< 1	0.03	26	220	< 2	163	0.09	59	< 10	54
172493	205 294	1.81	0.98	0.50	140	1	0.06	47	240	< 2	136	0.14	86	< 10	90
172494	205 294	1.99	1.81	0.48	75	2	0.11	37	150	< 2	76	0.31	117	< 10	68

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 7 8 4 9

BILLING INFORMATION

Date: 29-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9637849

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				<u>2.00</u>
Net Cost \$				6.00
(Reg# R100938885) GST \$				<u>0.42</u>
TOTAL PAYABLE (CDN) \$				6.42



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

J: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9637849

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637849

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

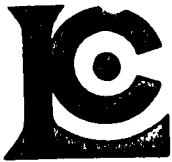
Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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PROJECT: WOLVERINE
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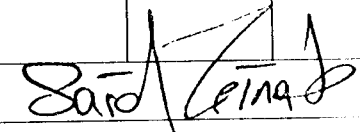
Page: 1 of 1
Total Pages: 1
Certificate Date: 28-OCT-96
Invoice No.: 19637849
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9637849

SAMPLE	PREP CODE	Zn %																		
104861	244 --	1.59																		

CERTIFICATION: 



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INVOICE NUMBER

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Date: 28-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

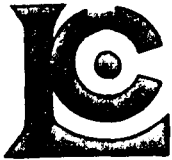
Billing: For analysis performed on
Certificate A9637946

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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t	0.00 10.50	10.50	21.00
Total Cost \$				21.00
Client Discount (25%) \$				-5.25
Net Cost \$				15.75
(Reg# R100938885) GST \$				1.10
TOTAL PAYABLE (CDN) \$				16.85



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9637946

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9637946

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	2	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
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Page: 1 of 1
Total Pages: 1
Certificate Date: 28-OCT-96
Invoice No.: I9637946
P.O. Number: 6406
Account: GP W

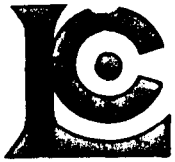
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9637946

SAMPLE	PREP CODE	Ag FA g/t										
175665 175666	244 -- 244 --	889 536										

CERTIFICATION:



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212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.

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INVOICE NUMBER

I 9 6 3 8 0 1 6

BILLING INFORMATION

Date: 30-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9638016

Terms: Payment due on receipt of invoice
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212 Brooksbank Ave.,
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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 348 - Sb	0.00 12.50	12.50	12.50
Total Cost \$				12.50
Client Discount (25%) \$				-3.13
Net Cost \$				9.37
(Reg# R100938885) GST \$				0.66
TOTAL PAYABLE (CDN) \$				10.03



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9638016

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9638016

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
348	1	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

Client: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 30-OCT-96
Invoice No. : 19638016
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9638016

SAMPLE	PREP CODE	Sb %											
105669	244 --	0.15											

CERTIFICATION: 



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 30-OCT-96
Invoice No. : 19638017
P.O. Number : 6406
Account : GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9638017

SAMPLE	PREP CODE	Sb %																		
105685	244 --	0.24																		

CERTIFICATION:



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A9638017

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9638017

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
348	1	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00



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V7X 1C4

INVOICE NUMBER

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BILLING INFORMATION

Date: 30-OCT-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
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Certificate A9638017

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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 348 - Sb %	0.00 12.50	12.50	12.50
Total Cost \$				12.50
Client Discount (25%) \$				<u>-3.13</u>
Net Cost \$				9.37
(Reg# R100938885) GST \$				<u>0.66</u>
TOTAL PAYABLE (CDN) \$				10.03



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 8 0 1 8

BILLING INFORMATION

Date: 30-OCT-96
Project: WOLVERINE
P.O. No.:
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9638018

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 348 - Sb	0.00 12.50	12.50	12.50
Total Cost \$				12.50
Client Discount (25%) \$				-3.13
Net Cost \$				9.37
(Reg# R100938885) GST \$				0.66
TOTAL PAYABLE (CDN) \$				10.03



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9638018

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9638018

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

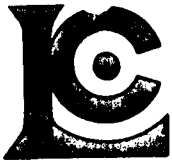
Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
348	1	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00



Chemex Labs Ltd.

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V7X 1C4

Page Number: 1
Total Pages: 1
Certificate Date: 30-OCT-96
Invoice No.: 19638018
P.O. Number:
Account: GPW

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9638018

SAMPLE	PREP CODE		Sb %									
175051	244	--	0.34									

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 8 0 1 9

BILLING INFORMATION

Date: 21-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

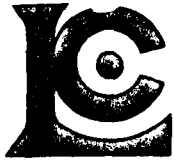
Billing: For analysis performed on
Certificate A9638019

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex	0.00		
	344 - Hg	12.50		
	348 - Sb	12.50	25.00	25.00
Total Cost \$				25.00
Client Discount (25%) \$				-6.25
Net Cost \$				18.75
(Reg# R100938885) GST \$				1.31
TOTAL PAYABLE (CDN) \$				20.06



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9638019

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9638019

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
344	1	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
348	1	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 21 NOV-96
Invoice No. : 19638019
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments : ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9638019

SAMPLE	PREP CODE	Hg %	Sb %																	
175087	244 --	0.036	0.17																	

CERTIFICATION:



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 3 8 8 6 3

BILLING INFORMATION

Date: 8-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

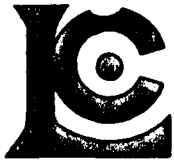
Billing: For analysis performed on
Certificate A9638863

Terms: Payment due on receipt of invoice
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CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t	0.00 10.50	10.50	10.50
Total Cost \$				10.50
Client Discount (25%) \$				-2.63
Net Cost \$				7.87
(Reg# R100938885) GST \$				0.55
TOTAL PAYABLE (CDN) \$				8.42



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9638863

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9638863

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

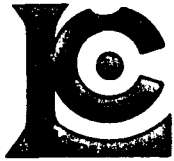
Samples submitted to our lab in Vancouver, BC.
This report was printed on 7-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	1	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Page Number : 1
Total Pages : 1
Certificate Date: 07-NOV-96
Invoice No. : 19638863
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

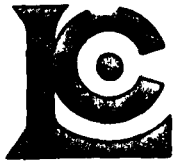
CERTIFICATE OF ANALYSIS

A9638863

SAMPLE	PREP CODE	Ag FA g/t									
175508	244 --	908									

CERTIFICATION:

[Handwritten Signature]



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INVOICE NUMBER

I 9 6 3 9 3 2 5

BILLING INFORMATION

Date: 13-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9639325

Terms: Payment due on receipt of invoice
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CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
2	244 - Pulp; prev. prepared at Chemex 316 - Zn	0.00 8.00	8.00	16.00
Total Cost \$				16.00
Client Discount (25%) \$				-4.00
Net Cost \$				12.00
(Reg# R100938885) GST \$				0.84
TOTAL PAYABLE (CDN) \$				12.84



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9639325

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9639325

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

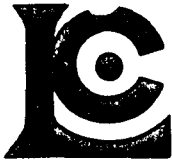
Samples submitted to our lab in Vancouver, BC.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	2	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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VANCOUVER, BC
V7X 1C4

Page: 1 of 1
Total Pages: 1
Certificate Date: 12-NOV-96
Invoice No.: 19639325
P.O. Number: 6406
Account: GP W

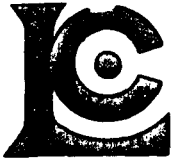
Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9639325

SAMPLE	PREP CODE	Zn %									
172340	244 --	1.40									
172345	244 --	2.34									

CERTIFICATION:



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British Columbia, Canada V7J 2C1
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Date: 13-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

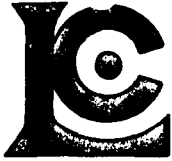
Billing: For analysis performed on
Certificate A9639326

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# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	8.00
Total Cost \$				8.00
Client Discount (25%) \$				-2.00
Net Cost \$				6.00
(Reg# R100938885) GST \$				0.42
TOTAL PAYABLE (CDN) \$				6.42



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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

A9639326

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9639326

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

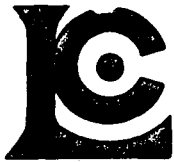
Samples submitted to our lab in Vancouver, BC.
This report was printed on 12-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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PHONE: 604-984-0221 FAX: 604-984-0218

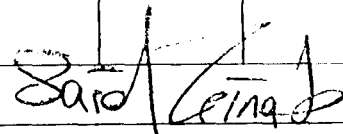
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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

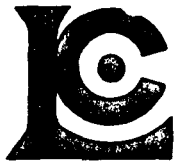
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Total Pages : 1
Certificate Date: 12-NOV-96
Invoice No. : 19639326
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9639326

SAMPLE	PREP CODE	Zn %																		
172316	244 --	1.26																		

CERTIFICATION: 



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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WESTMIN RESOURCES LTD.

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INVOICE NUMBER

I 9 6 3 9 3 2 7

BILLING INFORMATION

Date: 19-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9639327

Terms: Payment due on receipt of invoice
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Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 331 - As	0.00 12.50	12.50	12.50
Total Cost \$				12.50
Client Discount (25%) \$				-3.13
Net Cost \$				9.37
(Reg# R100938885) GST \$				0.66
TOTAL PAYABLE (CDN) \$				10.03



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

A9639327

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9639327

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
331	1	As %: HClO4-HNO3 digestion	AAS	0.01	100.0



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Page : 1
Total Pages : 1
Certificate Date: 19-NOV-96
Invoice No. : 19639327
P.O. Number : 6406
Account : GP W

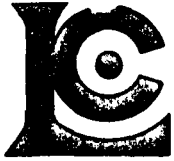
Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9639327

SAMPLE	PREP CODE	As %										
175665	244 --	1.07										

CERTIFICATION:



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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INVOICE NUMBER

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BILLING INFORMATION

Date: 21-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Billing: For analysis performed on Certificate A9639328

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

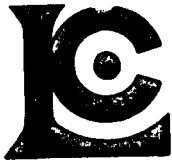
Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t	0.00 10.50		10.50
3	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t 316 - Zn %	0.00 10.50 8.00	18.50	55.50
1	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t 312 - Pb % 316 - Zn %	0.00 10.50 8.00 8.00	26.50	26.50
1	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t 312 - Pb % 316 - Zn % 348 - Sb %	0.00 10.50 8.00 8.00 12.50	39.00	39.00
3	244 - Pulp; prev. prepared at Chemex 316 - Zn %	0.00 8.00	8.00	24.00
1	244 - Pulp; prev. prepared at Chemex 384 - Ag FA g/t 312 - Pb % 316 - Zn % 344 - Hg %	0.00 10.50 8.00 8.00 12.50	39.00	39.00

Total Cost \$	194.50
Client Discount (25%) \$	-48.63
Net Cost \$	145.87
(Reg# R100938885) GST \$	10.21
TOTAL PAYABLE (CDN) \$	156.08



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

QC I 1
Tot QC Pg: 1
Date: 21-NOV-96
Invoice #: 19639328
P.O. #: 6406
GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

QC DATA OF CERTIFICATE

A9639328

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Ag FA g/t	Pb %	Zn %	Hg %	Sb %					
JV-1 CHEMEX MEAN	std1 ---	1 ---	180 175	----- -----	----- -----	----- -----	----- -----					
JWB-JV-1 CHEMEX MEAN	std1 ---	1 ---	----- -----	----- -----	0.96 0.95	----- -----	----- -----					

CERTIFICATION:



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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PROJECT: WOLVERINE
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V7X 1C4

A9639328

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9639328

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	10	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	7	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000
312	3	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	9	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
344	1	Hg %: Aqua regia-MIBK	AAS	0.001	100.00
348	1	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

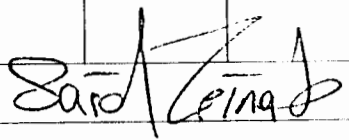
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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

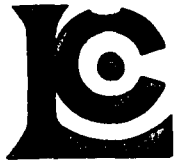
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Total Pages: 1
Certificate Date: 21-NOV-96
Invoice No.: 19639328
P.O. Number: 6406
Account: GP W

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS A9639328

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Zn %	Hg %	Sb %					
175562	244 --	109	-----	-----	-----	-----					
175563	244 --	96	-----	1.78	-----	-----					
175564	244 --	297	1.79	2.43	-----	-----					
175565	244 --	168	-----	2.02	-----	-----					
175592	244 --	275	1.11	3.54	-----	0.21					
175638	244 --	130	-----	1.64	-----	-----					
175653	244 --	-----	-----	1.38	-----	-----					
175663	244 --	-----	-----	3.04	-----	-----					
175733	244 --	172	1.39	11.50	0.015	-----					
175773	244 --	-----	-----	1.42	-----	-----					

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 4 0 3 3 3

BILLING INFORMATION

Date: 29-NOV-96
Project: WOLVERINE
P.O. No.: 6406
Account: GP W

Comments: ATTN: TERRY TUCKER - VANCOUVER
OFFICE

Billing: For analysis performed on
Certificate A9640333

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
1	244 - Pulp; prev. prepared at Chemex 348 - Sb	0.00 12.50	12.50	12.50
1	244 - Pulp; prev. prepared at Chemex As & Sb QUOTE	0.00 16.50	16.50	16.50
Total Cost \$				29.00
Client Discount (25%) \$				-7.25
Net Cost \$				21.75
(Reg# R100938885) GST \$				1.52
TOTAL PAYABLE (CDN) \$				23.27



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9640333

Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE

A9640333

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #: 6406

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-NOV-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
331	1	As %: HC104-HNO3 digestion	AAS	0.01	100.0
348	2	Sb %: HNO3-chlorate-HCl-ascorbic	AAS	0.01	100.00



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Page Number : 1
Total Pages : 1
Certificate Date: 29-NOV-96
Invoice No. : I9640333
P.O. Number : 6406
Account : GP W

Project : WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

CERTIFICATE OF ANALYSIS

A9640333

SAMPLE	PREP CODE	As %	Sb %										
105931	244 --	-----	0.27										
105933	244 --	1.90	0.22										

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments: ATTN: TERRY TUCKER - VANCOUVER OFFICE

Page Number : 1
Total Pages : 1
Certificate Date: 29-NOV-96
Invoice No. : 19640333
P.O. Number : 6406
Account : GP W

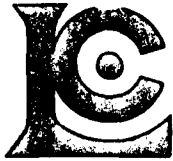
CERTIFICATE OF ANALYSIS

A9640333

SAMPLE	PREP CODE	As %	Sb %								
105931	244 --	-----	0.27								
105933	244 --	1.90	0.22								

CERTIFICATION:

Signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 6 8 1 2 6 5

BILLING INFORMATION

Date: 18-SEP-96
Project:
P.O. No.:
Account: GP W

Comments:

Billing: For services regarding
Wolverine Lake Project

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

DESCRIPTION OF SERVICES

*
AMOUNT

INVOICE FOR ANALYSIS PERFORMED ON CERTIFICATE A9625603
WOLVERINE LAKE PROJECT

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
15	210 - Vegetation: Dry, mill -20 mesh VG-2 ICP/NAA package	4.25 30.00	34.25	513.75

Total Cost \$	513.75
Client Discount (25%) \$	-128.44
Net Cost \$	385.31
(Reg# R100938885) GST \$	26.97
TOTAL PAYABLE (CDN) \$	412.28