



# CHEMEX LABS LTD.

NPS - W/DOME

2 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: 985-0648  
 AREA CODE: 604  
 TELEX: 043-52597

521366  
 92L/ZW

JUN 18 1980

• ANALYTICAL CHEMISTS      • GEOCHEMISTS      • REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

CERTIFICATE NO. 68352  
 INVOICE NO. 36275  
 RECEIVED June 4/80  
 ANALYSED June 17/80

TO: Esperanza Explorations  
 1027 - 470 Granville St.  
 Vancouver, B.C.  
 V6C 1V5

ATTN:

SAMPLE NO. :	oz/ton	
	Au	
7947	< 0.003	with dome
7948	< 0.003	with dome
7949	< 0.003	with dome
7950	0.204	STE view with dome
80-62-5	0.010	with dome



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

*R. Swait*  
 REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

NYS. WHITE DOME

ANALYTICAL CHEMISTS · GEOCHEMISTS · REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO: Esperanza Explorations  
 1027 - 470 Granville St.  
 Vancouver, B.C.  
 V6C 1V5

CERTIFICATE NO. 53349  
 INVOICE NO. 36267  
 RECEIVED June 4/80  
 ANALYSED June 16/80

ATTN:

ROCKS

JUN 18 1980

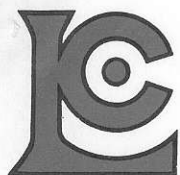
SAMPLE NO. :	PPB
	Au
80-62-0	< 10
1	< 10
2	< 10
3	< 10
80-62-4	< 10
80-64-1	No Sample because bag was broken.
80-62-6	< 10



MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY: .....

*Hart Biddle*



# CHEMEX LABS LTD.

2 BROADBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: 985-0648 984-0221  
 AREA CODE: 604  
 TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

TO: Esperanza Explorations  
 1027 - 470 Granville St.  
 Vancouver, B.C.  
 V6C 1V5

ATTN:

CERTIFICATE NO. 68238  
 INVOICE NO. 36183  
 RECEIVED May 26/80  
 ANALYSED June 11/80

SAMPLE NO. :	% As	% Co	oz/ton Ag	oz/ton Au
✓ 7938 0-1.5 Trench 8				0.005
✓ 7939 0-1.1 " 9				<0.003
✓ 7940 0-1.3 " 6				0.064
✓ 7941 DC Tr 6	0.02	0.005	0.02	0.112
✓ 7942 DC Tr 8				0.003
✓ 7943 DC Tr 9				0.005
✓ 7944 1.3-2 Trench 6				0.040
✓ 7945 2-3				0.005
✓ 7946 1.3-3 DC Trench 6				0.003
✓ 15784 DC	<0.01		0.01	0.036
✓ 15785 DC	<0.01	0.005	0.02	0.104
15786 0-1 m				0.226
15787 1-2				0.088
15788 2-2.7				0.134
15789 2.7-4.1				0.128
✓ 15790 0-1				0.052
✓ 15791 1-2				0.196
✓ 15792 0-1				0.020
✓ 15793 1-2				0.022
✓ 15794 2-3				0.018
✓ 15795 3-4.3				0.012
✓ 15796 0-1				0.298
✓ 15797 1-1.8				0.046
✓ 15798 0-1.4				0.010
✓ 15799 0-1				0.114
✓ 15800 1-2				0.606

WHITE DOME

DC. Drill Cuttings

*[Signature]*  
 REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

ANALYTICAL CHEMISTS    GEOCHEMISTS    REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. **53140**  
 INVOICE NO. **35960**  
 RECEIVED **May 26/80**  
 ANALYSED **May 30/80**

TO: **Esperanza Explorations**  
**#1027 - 470 Granville St.**  
**Vancouver, B.C.**  
**V6C 1V5**

ATTN:

SAMPLE NO. :	PPB	PPM
	Au	As
ESP80-1	< 10	110
2	< 10	55
3	10	43
4	< 10	2
5	< 10	4
6	10	14
7	< 10	14
8	< 10	3
9	< 10	2
10	< 10	90
11	< 10	135
12	20	115
13	380 <i>oil</i>	45
14	40	48
15	< 10	53
16	20	60
17	< 10	95
18	10	45
19	< 10	45
20	< 10	70
21	< 10	95
22	10	195
23	< 10	300
24	220	255
25	< 10	60
26	< 10	75
27	10	57
28	10	>500
29	< 10	100
30	100	165
31	30	115
32	220	110
33	820	29
34	2700 = .078 oz/ton	17
35	< 10	15
36	10	67
37	10	35
38	< 10	38
39	< 10	60
ESP80-40	100	100

*WD*  
*Soil Survey*

*MEMO*

*Hart Biddle*



MEMBER  
 CANADIAN TESTING

CERTIFIED BY:



# CHEMEX LABS LTD.

BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

• ANALYTICAL CHEMISTS    • GEOCHEMISTS    • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO: Experanza Explorations  
1027 - 470 Granville St.  
Vancouver, B.C.  
V6C 1V5

ATTN:

CERTIFICATE NO. 53141  
INVOICE NO. 35960  
RECEIVED May 26/80  
ANALYSED May 30/80

SAMPLE NO. :	PPB	PPM	} WD soil survey
	Au	As	
ESP80-41	< 10	2	} WD soil survey
42	< 10	110	
43	160	285	
44	10	>500	
45	< 10	22	
46	20	1	
47	< 10	2	
ESP80-48	< 10	4	



MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY: Hart Biddle



# CHEMEX LABS LTD.

BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO: Esperanza Explorations  
 #1027 - 470 Granville St.  
 Vancouver, B.C.  
 V6C 1V5

ATTN:

CERTIFICATE NO. 53140  
 INVOICE NO. 35960  
 RECEIVED May 26/80  
 ANALYSED May 30/80

SAMPLE NO. :	PPB	PPM
	Au	As
ESP80-1	< 10	110
2	< 10	55
3	10	43
4	< 10	2
5	< 10	4
6	10	14
7	< 10	14
8	< 10	3
9	< 10	2
10	< 10	90
11	< 10	135
12	20	115
13	380	45
14	40	48
15	< 10	53
16	20	60
17	< 10	95
18	10	45
19	< 10	45
20	< 10	70
21	< 10	95
22	10	195
23	< 10	300
24	220	255
25	< 10	60
26	< 10	75
27	10	57
28	10	>500
29	< 10	100
30	100	165
31	30	115
32	220	110
33	820	29
34	2700	17
35	< 10	15
36	10	67
37	10	35
38	< 10	38
39	< 10	60
ESP80-40	100	100

*HEING OPS*

*HEING*

*COPIES - MASTER.  
 COPIES - HEING OPS*

*Hart Biddle*



MEMBER  
 CANADIAN TESTING

CERTIFIED BY



# CHEMEX LABS LTD.

BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: 984-0221  
 AREA CODE: 604  
 TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO: **Experanza Explorations**  
 1027 - 470 Granville St.  
 Vancouver, B.C.  
 V6C 1V5

ATTN:

CERTIFICATE NO. 53141  
 INVOICE NO. 35960  
 RECEIVED May 26/80  
 ANALYSED May 30/80

SAMPLE NO. :	PPB	PPM
	Au	As
ESP80-41	< 10	2
42	< 10	110
43	160	285
44	10	>500
45	< 10	22
46	20	1
47	< 10	2
ESP80-48	< 10	4



MEMBER  
 CANADIAN TESTING

CERTIFIED BY: .....

*Hart Biddle*

NY 1. WHITE DOME



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

## REPORT OF ANALYSIS

TO: Esperanza Explorations  
1027 - 470 Granville St.  
Vancouver, B.C.  
V6C 1V5

ATTN:

ROCKS

CERTIFICATE NO. 53349

INVOICE NO. 36267

JUN 18 1980

RECEIVED June 4/80

ANALYSED June 16/80

SAMPLE NO	PPB	Au
80-62-0	< 10	
1	< 10	
2	< 10	
3	< 10	
80-62-4	< 10	
80-64-1	No Sample because bag was broken.	
80-62-6	< 10	

*Hart Biddle*



MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY





# CHEMEX LABS LTD.

BROOKSBANK AVE.  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1  
 TELEPHONE: ~~985-0048~~ 984-0221  
 AREA CODE: 604  
 TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

TO: Esperanza Explorations  
 1027 - 470 Granville St.  
 Vancouver, B.C.  
 V6C 1V5

ATTN:

CERTIFICATE NO. 68238  
 INVOICE NO. 36183  
 RECEIVED May 26/80  
 ANALYSED June 11/80

SAMPLE NO. :	% As	% Co	oz/ton Ag	oz/ton Au
7933				0.005
7939				<0.003
7940				0.064
7941	0.02	0.005	0.02	0.112
7942				0.003
7943				0.005
7944				0.040
7945				0.005
7946				0.003
15784	<0.01		0.01	0.036
15785	<0.01	0.005	0.02	0.104
15786				0.226
15787				0.088
15788				0.134
15789				0.128
15790				0.052
15791				0.196
15792				0.020
15793				0.022
15794				0.018
15795				0.012
15796				0.298
15797				0.046
15798				0.010
15799				0.114
15800				0.606

WHITE DOME

*[Handwritten Signature]*



MEMBER  
 CANADIAN TESTING

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

OCT 20 1980

## ANALYTICAL REPORT

Ref: 55

Project Roanoke Date of report Oct. 17/80.  
File No. 0-957 Date samples received Oct. 3/80.

Samples submitted by: .....

Company: Welcome North Mines

Report on: 27 soils 1 rock Geochem samples

cc. Master File -  
cc. G. Keyes -  
cc. H. Nalpas -

Assay samples

Copies sent to:

CHARGE

WLN/ESP  
Gen. OEX

- Welcome North Mines, Vancouver, B.C.
- .....
- .....

Samples: Sieved to mesh - 80 soil Ground to mesh - 80 rock

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Pb, Ag-nitric, perchloric digestion. A.A. Analysis.

As-Spectrophotometric. Au-Aqua Regia.

Remarks: .....

Assays to follow.

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPA.

Welcome North Mines

**GEOCHEMICAL ANALYSIS DATA SHEET**

File No. 0-957

PROJECT No.: Roanoke

MIN - EN Laboratories Ltd.

DATE: Oct. 17

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1980.

ATTENTION:

Sample. Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80
81	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
RO 1			35				11			5		20			
2			29				04			10		15			
3			38				08			18		25			
4			34				08			12		5			
5			28				06			9		10			
6			23				05			10		10			
7			42				08			8		10			
8			19				06			10		15			
9			40				08			3		15			
10			50				10			12		530			
11			31				10			3		15			
12			36				10			5		10			
13			42				08			6		20			
14			91				11			10		20			
15			51				10			10		20			
16			60				09			12		15			
17			47				11			5		5			
18			71				10			14		5			
19			50				07			12		30			
20			74				10			8		5			
21			42				07			2		25			
22			110				08			14		5			
23			119				14			14		10			
24			41				09			5		15			
25			69				09			11		20			
RO 26			34				07			11		10			
RO 14R			56				08			12		5			
							.								
							.								
							.								

CERTIFIED BY



MIN-EN LABORATORIES LTD.

705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
Phone: 980-5814

SEP 7

**Certificate of Assay**

to: Esperanza Explorations PROJECT No. Esperanza Heino  
1027-470 Granville St., DATE Sept. 6/79.  
Vancouver, B.C. File No. 9-586

SAMPLE No.	Ni %	Ag oz/ton	Au oz/ton	Cu %
	ESP79-697-1	.008	.10	.023
2	.002	.09	.020	.294
3	---	.07	.001	---
4	---	.06	.001	---
5	<i>W.D.</i> ---	.03	.001	---
6	<i>clips plotted</i> ---	.03	.002	---
7	<i>plotted</i> ---	.03	.001	---
8	<i>detail</i> .001	.09	.004	.139
9	.001	.09	.003	.064
10	.002	.08	.002	.032
11	---	.08	.002	---
12	---	.09	.148 ✓	---
13	.002	.09	.007 ✓	.142
14	---	.07	.010	---
15	<i>W.D.</i> .007	.10	.092	.020
16	<i>clips plotted on large scale</i> ---	.09	.002	---
ESP79-697-17	.003	.11	.001	.131
ESP79-688-5	---	.06	.001	---
6	---	.07	.002	---
ESP79-688-7	---	.10	.001	---

*WHITE DOME*

MIN-EN Laboratories Ltd.

CERTIFIED BY

COMPANY Esperanza Expl.

**GEOCHEMICAL ANALYSIS DATA SHEET**

FILE No. 9-5

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

DATE: Aug

ATTENTION: **J. Brock**

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

-40 mesh

1979

Sample Number	6 MK ppm	10 Cu ppm	15 Pb ppm	20 Zn ppm	25 Ni ppm	30 Co ppm	35 Ag ppm	40 Fe ppm	45 Hg ppb	50 As ppm	55 Mn ppm	60 Au ppb	65 70 75		
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155
ESP79-590													5		
591													5		
592													5		
593													5		
594													<5		
595													5		
596													<5		
597													5		
598													10		
599													5		
600													5		
601													60		
602													5		
603													5		
604													5		
605													5		
606													15		
607													5		
608													10		
609													5		
610													50		
611													10		
612													15		
613													<5		
614													20		
615													260		
616													10		
617													5		
618													5		
ESP79-619													10		

CERTIFIED BY \_\_\_\_\_

# GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814


PROJECT No.: \_\_\_\_\_

ATTENTION: **J. Brock**

-40 mesh

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70
	As ppb	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb		
	81	86	90	95	100	105	110	115	120	125	130	135	140	145
ESP79-620														5
621														5
622														10
623														5
624														5
625														260
626														5
627														45
628														110
629														10
630														5
631														15
632														15
633														10
634														10
635														5
636														10
637														10
638														5
639														15
640														10
641														5
642														10
643														5
644														5
645														10
646														10
647														10
648														5
ESP79-649														5

CERTIFIED BY \_\_\_\_\_

COMPAN  Esperanza Expl.

**GEOCHEMICAL ANALYSIS DATA SHEET**

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

ATTENTION: **J. Brock**

**-40 mesh**

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70
	mg	Cu	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb		
	81	86	90	95	100	105	110	115	120	125	130	135	140	145
ESP79-650														35
		51												25
		52												25
		53												20
		54												45
		55												50
		56												20
		57												15
		58												5
		59												5
		60												<5
		61												10
		62												10
		63												15
		64												10
		65												135
		66												25
		67												15
		68												35
		69												15
		70												10
		71												15
		72												20
		73												35
		74												25
		75												10
		76												30
		77												25
		78												35
ESP79-679														65

26  
25  
5  
5

117

(oz/ton)



COMPANY Esperanza Expl.

**GEOCHEMICAL ANALYSIS DATA SHEET**

PROJECT No.: \_\_\_\_\_

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

-40 mesh

ATTENTION: J. Brock

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70
	Co		Cu	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au	
	ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150
<b>ESP79-680</b>													<b>6.00</b>	
	81												<b>10.00</b>	
	82												<b>5.5</b>	
	83												<b>1.0</b>	
	84												<b>4.5</b>	
	85												<b>6.5</b>	
	86												<b>5</b>	
	87												<b>5.0</b>	
	88												<b>5</b>	
	89												<b>1.5</b>	
	90												<b>&lt;5</b>	
<b>ESP79-691</b>													<b>2.400</b>	

26  
25  
5  
5

11

COMPAN: Esperanza Expl.

GEOCHEMICAL ANALYSIS DATA SHEET

SEP 7 1979

FILE No. 9-586

PROJECT No.: Esperanza-Heino

MIN - EN Laboratories Ltd.

DATE: Sept. 6

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

ATTENTION: J. Brock

-40. MESH

1979.

Sample Number	6 10 ppm	15 Cu ppm	20 Pb ppm	25 Zn ppm	30 Ni ppm	35 Co ppm	40 Ag ppm	45 Fe ppm	50 Hg ppb	55 As ppm	60 Mn ppm	65 Au ppb	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
ESP.79-	69.2											5	✓			
	69.3											10	NO MASH			
	69.4											65	NO MASH			
	69.5											5	✓			
	69.6											10	✓			
	69.7											5				
	69.8											10	✓			
	69.9											5	✓			
	70.0	Silts										15	✓			
	70.1	W.D.										5	✓			
	70.2											10	✓			
	70.3											15	✓			
	70.4											5	✓	✓		
	70.5											80	✓			
	70.6											10	✓			
	70.7											15	✓			
	70.8											5	✓			
	70.9											5				
	71.0											15	✓			
ESP.79-	71.1											5	✓			

✓ = WHITE DOME

*[Handwritten signature]*

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