124°30'
51°30'
124°00'
51°30'

LAKE
TATLAYOKO
CHILKO
LAKE
FRANKLYN
ARM

N

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 1
LITHOGEOCHEMICAL SAMPLE LOCATIONS

0 1 2 3 4
KILOMETRES

RV25
RV22
RV23,24
RC18
RD18,19,20
RV29
RV30
RD21
RM191,192
RM190
RM189
RM188
RM187
RM181,182
RD22
RD23,24
RM180
RM178,179
RV31
RM183
RM184,185,186
RV32
RC23
RC19-22,24-27
RV33
RM176
RM177
RV26
RM175
RV27,28
RM159
RM168
RM167
RC11,12
RD11
RV20
RV21
RV19
RD10
RD9
RD4
RD5-8
RM124
RM121-123
RM120
RM163
RM164
RM165,166
RC13,14
RD14,15
RD12,13
RD16,17
RC12,17
RC15
RM160
RM161
RM162
RC6-9
RM158
RM156,157
RM155
RD3
RC10
RV18
RM154
RM152,153
RM151
RM150
RV10
RM135,136
RM139,139
RM137
RM134
RD2
RM132,133
RM125
RM128-131
RV13
RM169-171
RM140
RM172
RM103
RC1
RM147
RM148
RM149
RM126,127
RC5
RV12
RC3,4
RM173,174
RV4
RD1
RV2
RV1
RV11
RM100,104-106
RV6
RM101
RM102
RM107
RC2
RM108
RM115
RV16,17
RV14,15
RM141-146
RM141-143
RM110
RM109
RM111
RM112
RM113,114
RV8
RV7
RV5
RM 116-119

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LOCATION MAP

0 100 200 300
KILOMETRES

Field Areas
1985
1986
Bridge River
Chilko Lake
Taseko Lakes
Gold Bridge
Lillooet
Kamloops
Hope
Vancouver

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GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

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MAP 2
STREAM SEDIMENT GEOCHEMISTRY
SAMPLE LOCATIONS

0 1 2 3 4
KILOMETRES

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

CHILKO LAKE

FRANKLYN ARM

Alexis Cr.

Tredcroft Cr.

Girdwood Cr.

Nine Mile Cr.

Deschamps Cr.

Farrow Cr.

Norrington Cr.

COAST PLUTONIC CONTACT

722 573 720 572 718 570 719 696 717 729 734 726 727 715 716 724 725 732 730 733 702 713 726 703 723 700 712 699 698 710 697 709 708 704 707 706 705 557 574 679 680 682 678 685 556 683 684 688 685 687 666 614 667 694 693 690 695 692 668 613 548 670 673 674 664 660 654 653 650 655 656 675 676 662 663 649 677 659 555 672 652 623 622 619 618 620 624 625 657 658 617 616 615 536 537 528 543 542 527 539 529 530 526 544 525 535 533 532 626 524 538 523 554 629 549 552 550 522 567 566 548 627 560 559 545 547 546 562 563 565 628 612 564 607 590 589 603 587 588 604 605 606 583 582 581 579 586 585 592 596 597 600 602 598 599 595 593 594 577 578 609 610 575

REFERENCES : MEMPR PUBLICATIONS

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LOCATION MAP

0 100 200 300
KILOMETRES

51°15′

124°15′

124°

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Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

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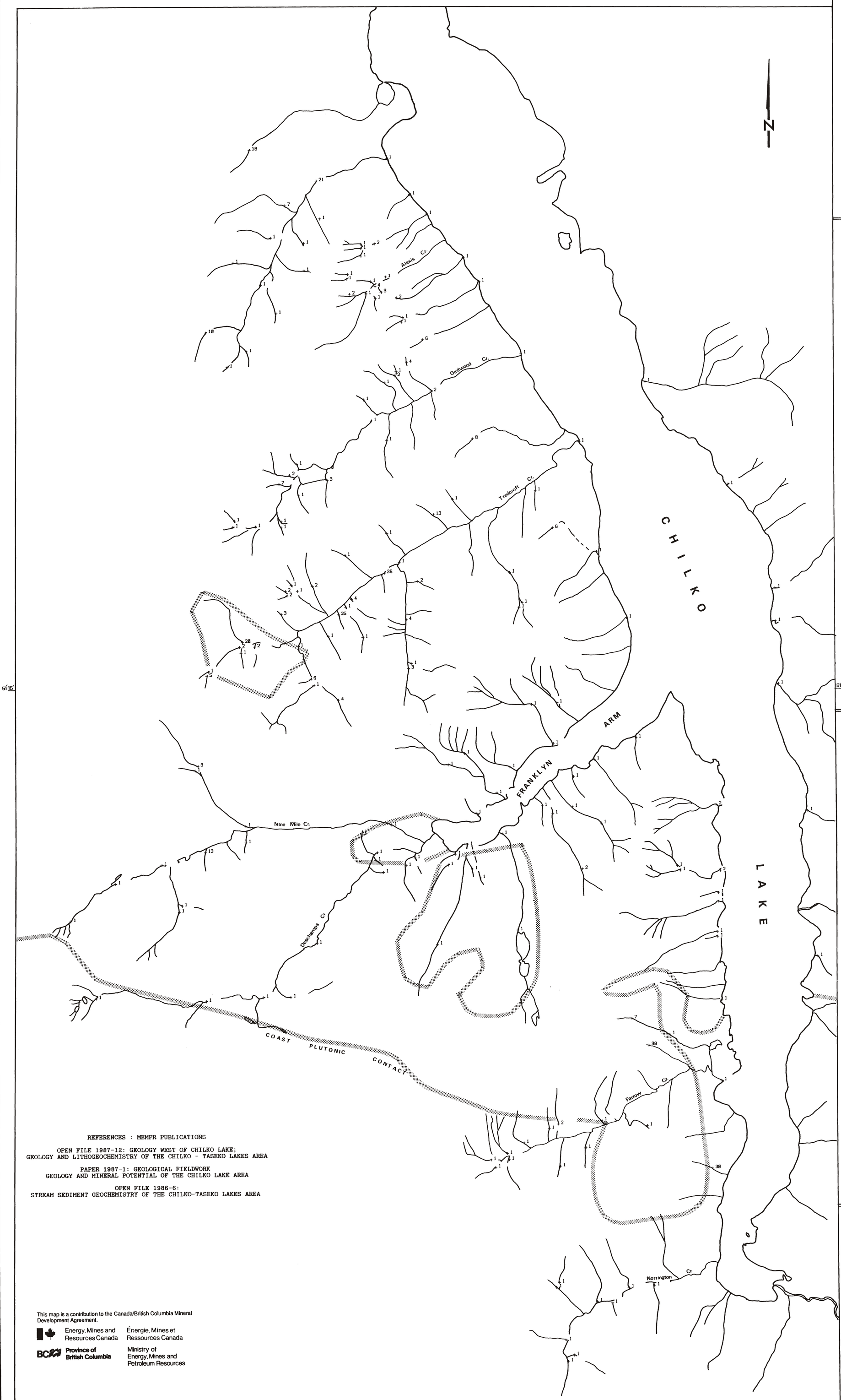
BY G.P. McLAREN

MAP 3
STREAM SEDIMENT GEOCHEMISTRY
GOLD (PPB)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = AU — Unit = PPB — N = 154

Mean =	0.1878	Min =	0.0000	1st Quartile =	0.0000
Std. Dev. =	0.3645	Max =	1.5798	Median =	0.0000
CV % =	194.0434	Skewness =	2.0664	3rd Quartile =	0.3010
Anti-Log Mean =	1.541	Anti-Log Std. Dev. :		(-)	0.666
				(+)	3.567

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0752)
0.00	0.32	0.917	-0.0376	
72.08	71.94	1.090	0.0376	********** --> 78
0.00	71.94	1.297	0.1128	
0.00	71.94	1.542	0.1881	
0.00	71.94	1.834	0.2633	
9.74	81.61	2.180	0.3385	**********
0.00	81.61	2.593	0.4138	
3.25	84.84	3.083	0.4890	****
0.00	84.84	3.666	0.5642	
3.25	88.06	4.359	0.6394	****
0.65	88.71	5.184	0.7147	*
1.95	90.65	6.164	0.7899	**
1.95	92.58	7.330	0.8651	**
1.30	93.87	8.717	0.9403	*
0.65	94.52	10.365	1.0156	*
0.00	94.52	12.325	1.0908	
1.30	95.81	14.657	1.1660	*
0.00	95.81	17.428	1.2413	
1.30	97.10	20.725	1.3165	*
0.65	97.74	24.644	1.3917	*
0.65	98.39	29.305	1.4669	*
0.00	98.39	34.847	1.5422	
1.30	99.68	41.438	1.6174	*

0 1 2 3 4

DATA DOES NOT PROVIDE A MEANINGFUL PROBABILITY PLOT

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = AU — Unit = PPB — N = 28

Mean =	0.0635	Min =	0.0000	1st Quartile =	0.0000
Std. Dev. =	0.2828	Max =	1.4771	Median =	0.0000
CV % =	445.3408	Skewness =	4.6361	3rd Quartile =	0.0000
Anti-Log Mean =	1.157	Anti-Log Std. Dev. :		(-)	0.604
				(+)	2.220

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.1055)
0.00	1.72	0.886	-0.0528	
92.86	91.38	1.129	0.0528	**********
0.00	91.38	1.440	0.1583	
0.00	91.38	1.836	0.2638	
3.57	94.83	2.340	0.3693	*
0.00	94.83	2.984	0.4748	
0.00	94.83	3.805	0.5803	
0.00	94.83	4.851	0.6858	
0.00	94.83	6.185	0.7913	
0.00	94.83	7.885	0.8968	
0.00	94.83	10.054	1.0023	
0.00	94.83	12.819	1.1078	
0.00	94.83	16.344	1.2133	
0.00	94.83	20.838	1.3189	
0.00	94.83	26.568	1.4244	
3.57	98.28	33.875	1.5299	*

0 1 2 3 4

DATA DOES NOT PROVIDE A MEANINGFUL PROBABILITY PLOT

REFERENCES : MEMPR PUBLICATIONS

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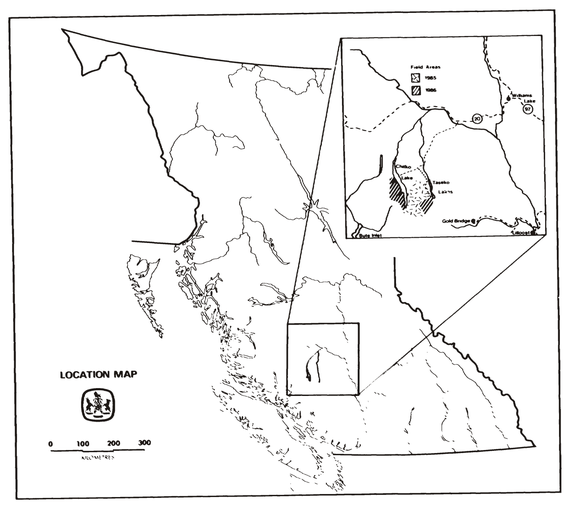
VALUES OF 1 REPRESENT AN ANALYSIS OF LESS THAN THE 1ppb DETECTION LIMIT



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GEOCHEMISTRY WEST OF CHILKO LAKE

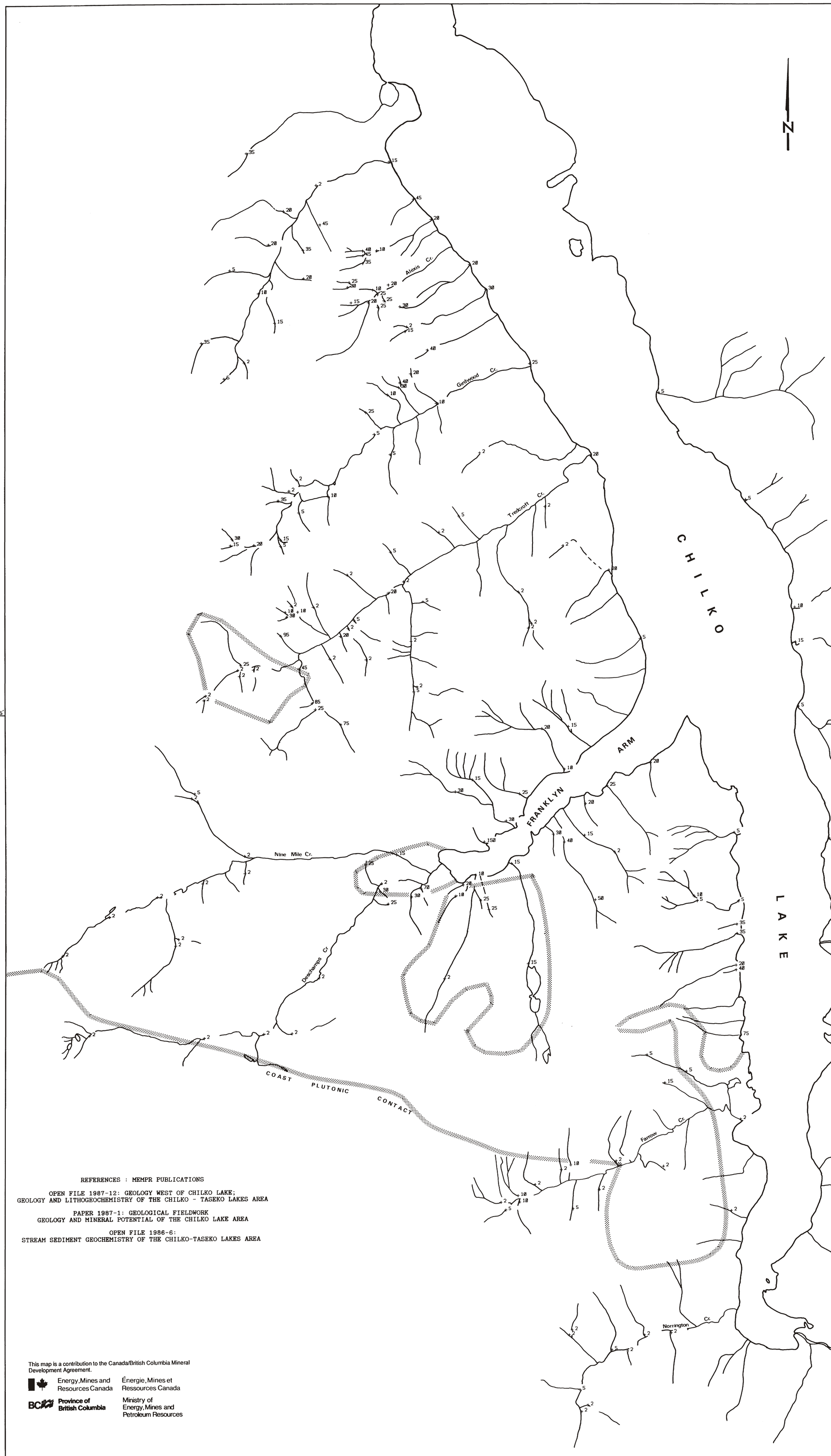
(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 4
STREAM SEDIMENT GEOCHEMISTRY
ARSENIC (PPM)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

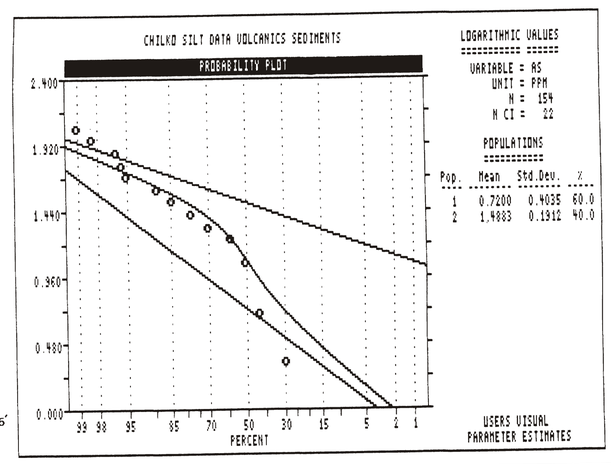
SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = AS — Unit = PPM — N = 154

Mean =	0.9714	Min =	-0.3010	1st Quartile =	0.3010
Std. Dev. =	0.5220	Max =	2.1761	Median =	1.0000
CV % =	53.7442	Skewness =	-0.0396	3rd Quartile =	1.3979
Anti-Log Mean =	9.362	Anti-Log Std. Dev. :		(-)	2.814
				(+)	31.146

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0893)
0.00	0.32	1.805	0.2564	
29.22	29.35	2.217	0.3457	**********
0.00	29.35	2.722	0.4350	
0.00	29.35	3.344	0.5243	
0.00	29.35	4.107	0.6135	
13.64	42.90	5.045	0.7028	*****
0.00	42.90	6.196	0.7921	
0.00	42.90	7.610	0.8814	
0.00	42.90	9.347	0.9707	
7.79	50.65	11.481	1.0600	***
0.00	50.65	14.102	1.1493	
7.79	58.39	17.321	1.2386	***
11.69	70.00	21.274	1.3278	****
7.79	77.74	26.130	1.4171	***
7.14	84.84	32.094	1.5064	***
4.55	89.35	39.420	1.5957	**
5.84	95.16	48.418	1.6850	**
0.65	95.81	59.469	1.7743	*
0.65	96.45	73.043	1.8636	*
1.95	98.39	89.716	1.9529	*
0.65	99.03	110.194	2.0422	*
0.00	99.03	135.346	2.1314	
0.65	99.68	166.240	2.2207	*

0 1 2 3 4



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = AS — Unit = PPM — N = 28

Mean =	0.6235	Min =	0.3010	1st Quartile =	0.3010
Std. Dev. =	0.3898	Max =	1.3979	Median =	0.3010
CV % =	62.5061	Skewness =	0.6452	3rd Quartile =	1.0000
Anti-Log Mean =	4.203	Anti-Log Std. Dev. :		(-)	1.713
				(+)	10.311

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0784)
0.00	1.72	1.827	0.2619	
53.57	53.45	2.189	0.3402	**********
0.00	53.45	2.622	0.4186	
0.00	53.45	3.140	0.4969	
0.00	53.45	3.761	0.5753	
0.00	53.45	4.504	0.6536	
14.29	67.24	5.395	0.7320	****
0.00	67.24	6.461	0.8103	
0.00	67.24	7.739	0.8887	
0.00	67.24	9.269	0.9670	
17.86	84.48	11.101	1.0454	*****
0.00	84.48	13.296	1.1237	
7.14	91.38	15.924	1.2021	**
0.00	91.38	19.073	1.2804	
0.00	91.38	22.844	1.3588	
7.14	98.28	27.360	1.4371	**

0 1 2 3 4

DATA DOES NOT PROVIDE A MEANINGFUL PROBABILITY PLOT

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OPEN FILE 1986-6:
STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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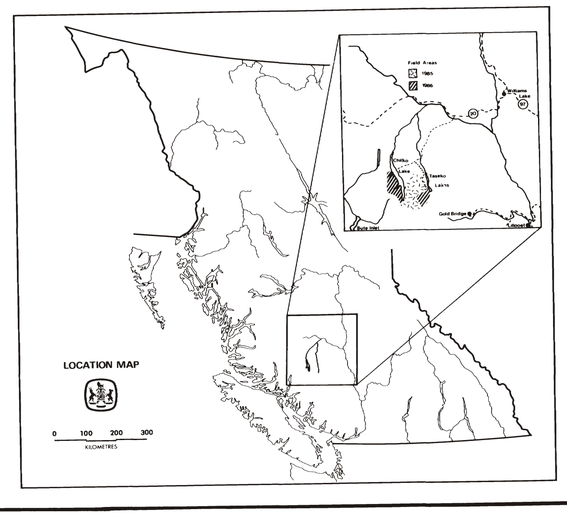
VALUES OF 2 REPRESENT AN ANALYSIS OF LESS THAN THE 5ppm DETECTION LIMIT



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GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

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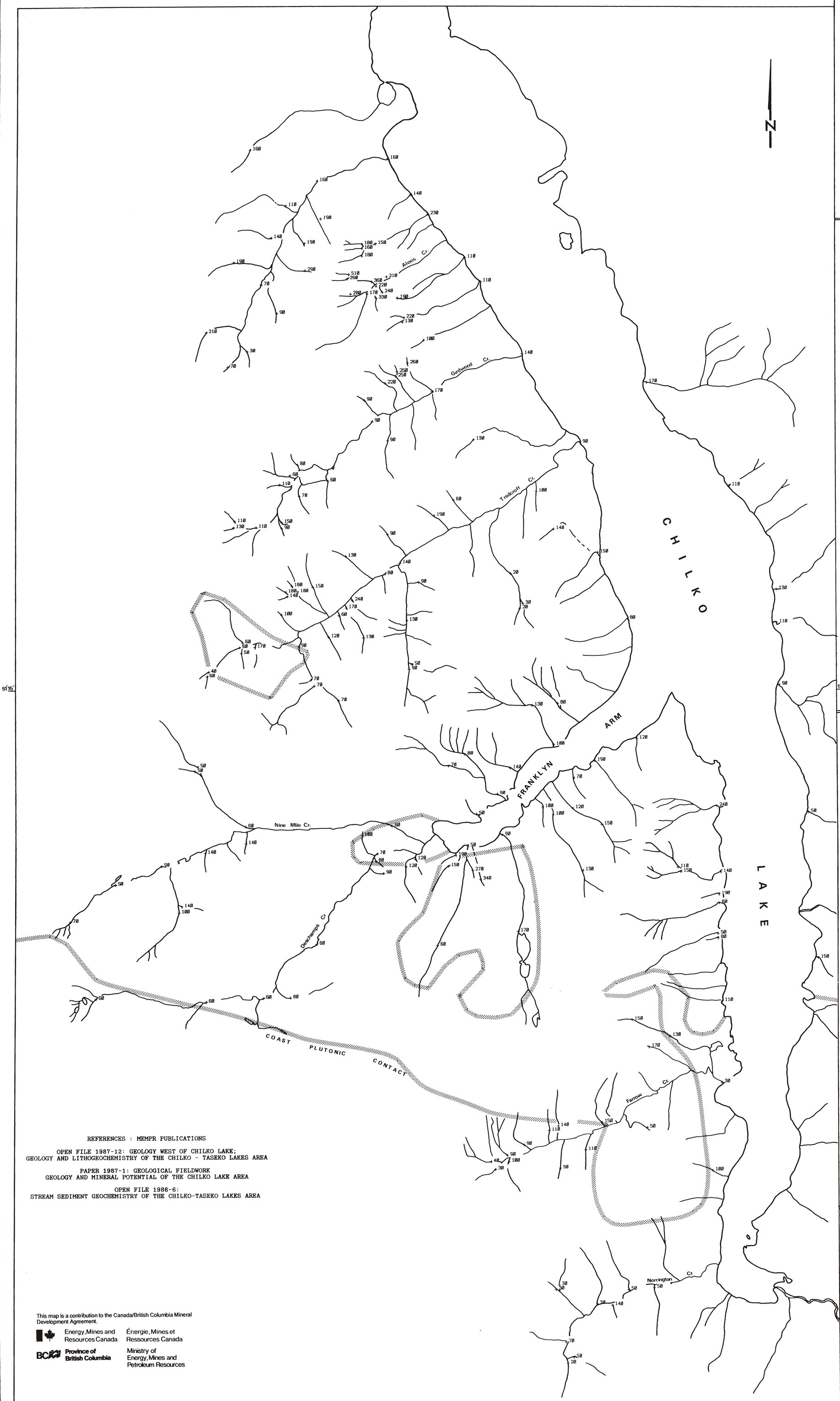
BY G.P. McLAREN

MAP 5
STREAM SEDIMENT GEOCHEMISTRY
BARIUM (PPM)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

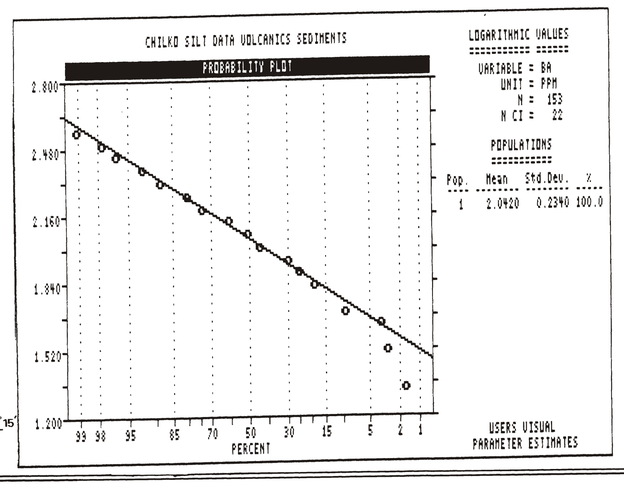
Variable = BA — Unit = PPM — N = 153

Mean =	2.0420	Min =	1.3010	1st Quartile =	1.9031
Std. Dev. =	0.2340	Max =	2.5911	Median =	2.0414
CV % =	11.4600	Skewness =	-0.3913	3rd Quartile =	2.2041
Anti-Log Mean =	110.144	Anti-Log Std. Dev. :		(-)	64.262
				(+)	188.785

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0614)
0.00	0.32	18.634	1.2703	
1.31	1.62	21.466	1.3317	*
0.00	1.62	24.727	1.3932	
0.00	1.62	28.484	1.4546	
1.31	2.92	32.812	1.5160	*
0.00	2.92	37.798	1.5775	
0.65	3.57	43.541	1.6389	*
5.88	9.42	50.156	1.7003	******
0.00	9.42	57.777	1.7618	
9.15	18.51	66.556	1.8232	**********
5.88	24.35	76.669	1.8846	******
5.23	29.55	88.318	1.9460	******
14.38	43.83	101.737	2.0075	**********
6.54	50.32	117.195	2.0689	*******
10.46	60.71	135.001	2.1303	**********
13.07	73.70	155.514	2.1918	**********
6.54	80.19	179.142	2.2532	*******
8.50	88.64	206.361	2.3146	********
3.92	92.53	237.716	2.3761	****
3.92	96.43	273.835	2.4375	****
1.31	97.73	315.442	2.4989	*
1.31	99.03	363.370	2.5603	*
0.65	99.68	418.581	2.6218	*

0 1 2 3 4

Excluding one high value of 510ppm



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

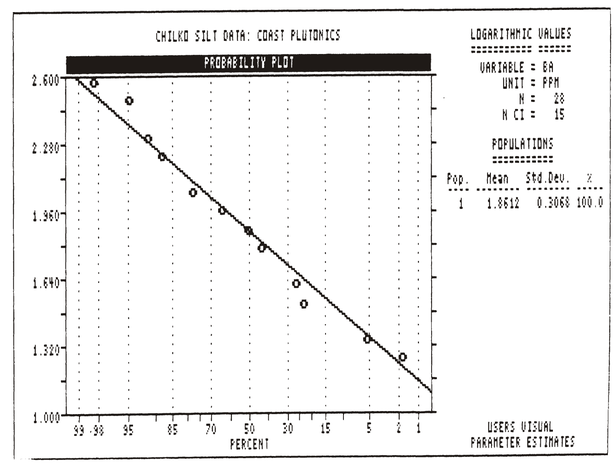
SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = BA — Unit = PPM — N = 28

Mean =	1.8612	Min =	1.3010	1st Quartile =	1.6990
Std. Dev. =	0.3068	Max =	2.5315	Median =	1.9542
CV % =	16.4842	Skewness =	0.1799	3rd Quartile =	2.0414
Anti-Log Mean =	72.648	Anti-Log Std. Dev. :		(-)	35.844
				(+)	147.243

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0879)
0.00	1.72	18.075	1.2571	
3.57	5.17	22.130	1.3450	*
0.00	5.17	27.093	1.4329	
17.86	22.41	33.171	1.5208	*****
3.57	25.86	40.611	1.6086	*
0.00	25.86	49.720	1.6965	
17.86	43.10	60.872	1.7844	*****
7.14	50.00	74.526	1.8723	**
14.29	63.79	91.243	1.9602	****
14.29	77.59	111.709	2.0481	****
0.00	77.59	136.766	2.1360	
10.71	87.93	167.443	2.2239	***
3.57	91.38	205.001	2.3118	*
0.00	91.38	250.983	2.3996	
3.57	94.83	307.280	2.4875	*
3.57	98.28	376.204	2.5754	*

0 1 2 3 4



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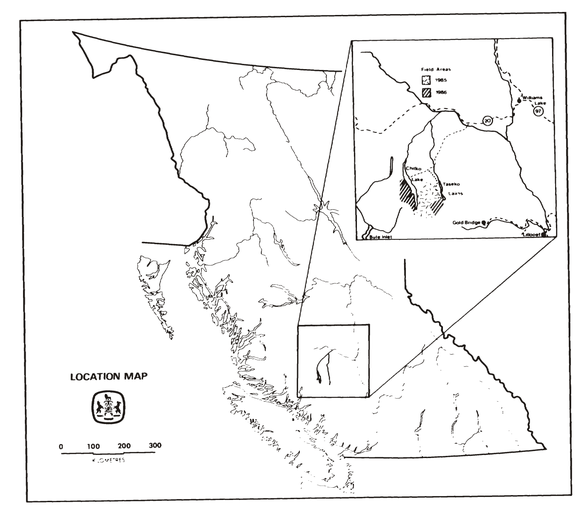

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GEOCHEMISTRY WEST OF CHILKO LAKE

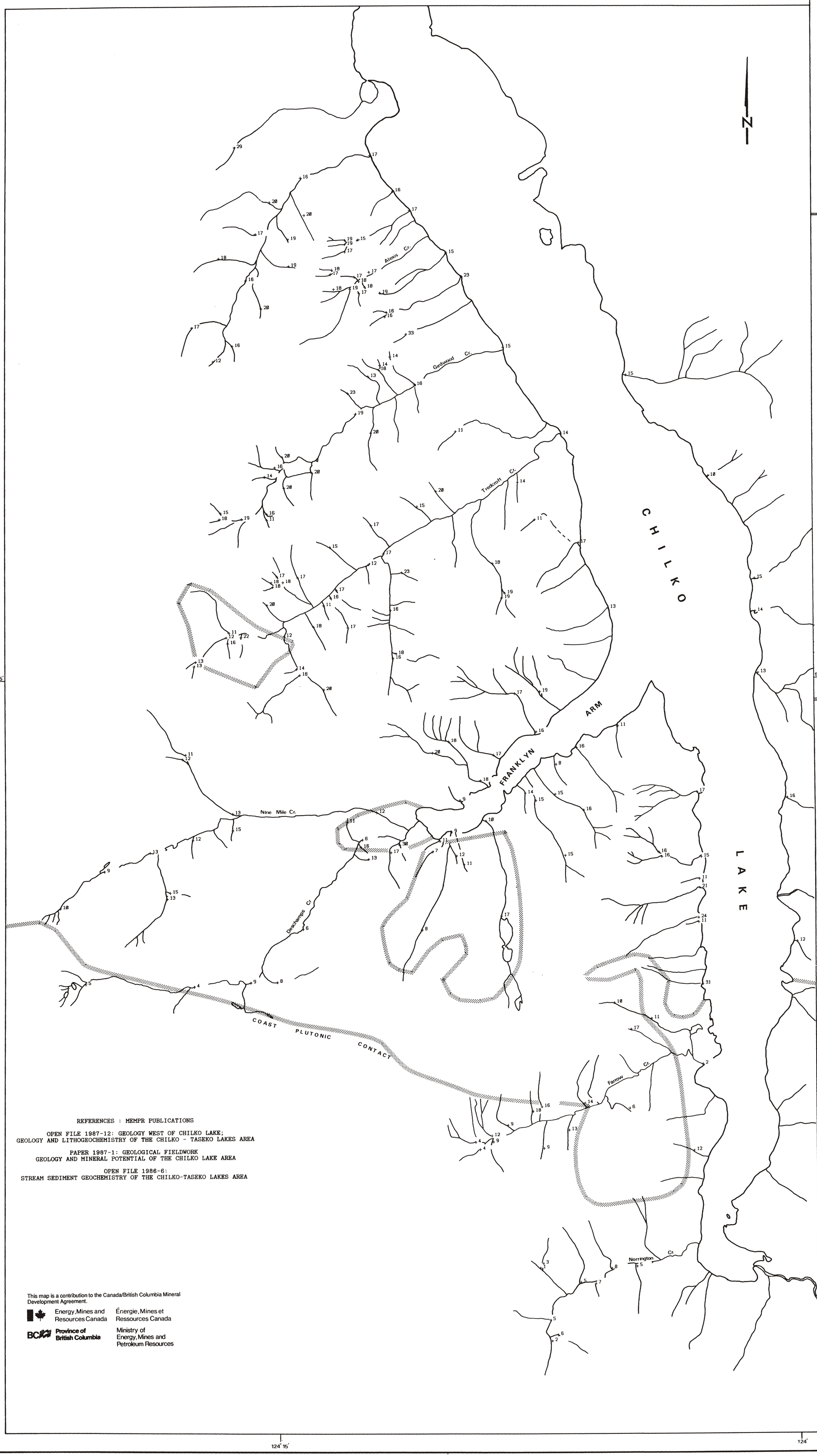
(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 6
STREAM SEDIMENT GEOCHEMISTRY
COBALT (PPM)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

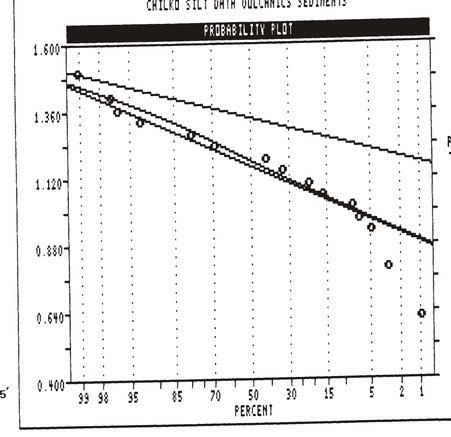
Variable = CO — Unit = PPM — N = 154

Mean =	1.1825	Min =	0.6021	1st Quartile =	1.1139
Std. Dev. =	0.1308	Max =	1.5185	Median =	1.2041
CV % =	11.0594	Skewness =	-1.0806	3rd Quartile =	1.2553
Anti-Log Mean =	15.225	Anti-Log Std. Dev. :		(-)	11.266
				(+)	20.574

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0436)
0.00	0.32	3.804	0.5802	
0.65	0.97	4.206	0.6239	*
0.00	0.97	4.651	0.6675	
0.00	0.97	5.142	0.7112	
0.00	0.97	5.686	0.7548	
1.95	2.90	6.287	0.7984	**
0.00	2.90	6.952	0.8421	
0.00	2.90	7.686	0.8857	
1.95	4.84	8.499	0.9294	**
1.95	6.77	9.397	0.9730	**
1.30	8.06	10.391	1.0166	*
7.79	15.81	11.489	1.0603	********
5.19	20.97	12.704	1.1039	*******
11.69	32.58	14.047	1.1476	************
9.09	41.61	15.531	1.1912	**********
27.27	68.71	17.173	1.2348	**********************************
10.39	79.03	18.988	1.2785	**********
14.29	93.23	20.996	1.3221	**************
3.25	96.45	23.215	1.3658	****
0.65	97.10	25.669	1.4094	*
0.00	97.10	28.383	1.4531	
1.95	99.03	31.383	1.4967	**
0.65	99.68	34.700	1.5403	*

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS



LOGARITHMIC VALUES
VARIABLE = CO
UNIT = PPM
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.1558	0.1172	86.0
2	1.3268	0.0682	14.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

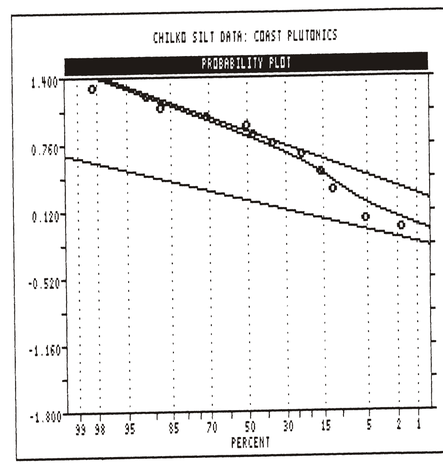
Variable = CO — Unit = PPM — N = 28

Mean =	0.8339	Min =	0.0000	1st Quartile =	0.6990
Std. Dev. =	0.3022	Max =	1.2553	Median =	0.9542
CV % =	36.2393	Skewness =	-0.9172	3rd Quartile =	1.0792
Anti-Log Mean =	6.822	Anti-Log Std. Dev. :		(-)	3.402
				(+)	13.682

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0897)
0.00	1.72	0.902	-0.0448	
3.57	5.17	1.109	0.0448	*
0.00	5.17	1.363	0.1345	
0.00	5.17	1.676	0.2242	
7.14	12.07	2.060	0.3138	**
0.00	12.07	2.532	0.4035	
3.57	15.52	3.113	0.4931	*
0.00	15.52	3.827	0.5828	
7.14	22.41	4.704	0.6725	**
14.29	36.21	5.783	0.7621	****
10.71	46.55	7.109	0.8518	***
3.57	50.00	8.739	0.9415	*
21.43	70.69	10.743	1.0311	******
17.86	87.93	13.206	1.1208	******
3.57	91.38	16.235	1.2104	*
7.14	98.28	19.957	1.3001	**

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS



LOGARITHMIC VALUES
VARIABLE = CO
UNIT = PPM
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.2007	0.1738	10.0
2	0.8648	0.2591	90.0

USERS VISUAL PARAMETER ESTIMATES

REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

PAPER 1987-1: GEOLOGICAL FIELDWORK
GEOLOGY AND MINERAL POTENTIAL OF THE CHILKO LAKE AREA

OPEN FILE 1986-6:
STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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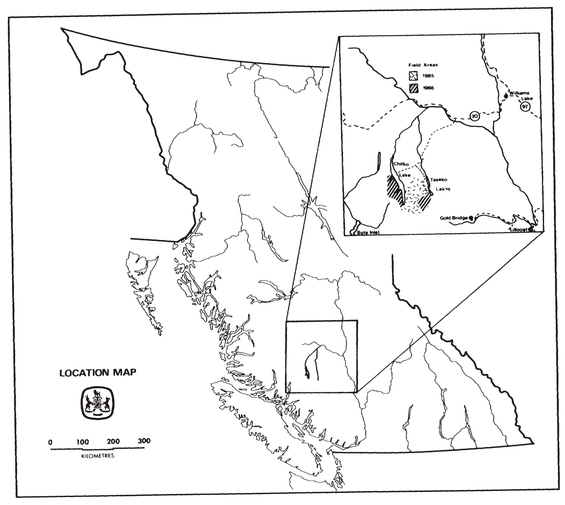


Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 7
STREAM SEDIMENT GEOCHEMISTRY
CHROMIUM (PPM)

0 1 2 3 4
KILOMETRES

Alexis Cr.
Girdwood Cr.
Tredcroft Cr.
Nine Mile Cr.
Deschamps Cr.
Farrow Cr.
Norrington Cr.
CHILKO LAKE
FRANKLYN ARM
COAST PLUTONIC CONTACT
51°15'
124°15'
124°

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = CR — Unit = PPM — N = 154

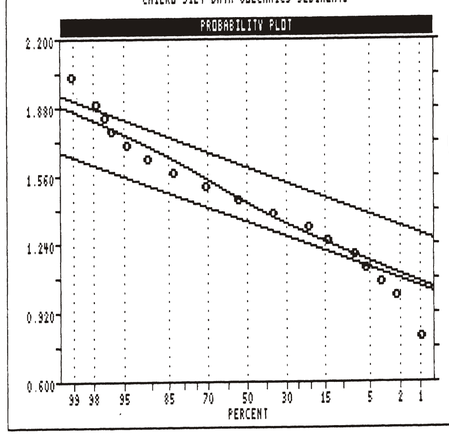
Mean =	1.4348	Min =	0.7782	1st Quartile =	1.3323
Std. Dev. =	0.1860	Max =	2.1206	Median =	1.4472
CV % =	12.9624	Skewness =	0.1568	3rd Quartile =	1.5315
Anti-Log Mean =	27.214	Anti-Log Std. Dev. :		(-)	17.734
				(+)	41.762

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0639)
0.00	0.32	5.574	0.7462	
0.65	0.97	6.458	0.8101	*
0.00	0.97	7.482	0.8740	
0.00	0.97	8.669	0.9380	
1.30	2.26	10.044	1.0019	*
1.30	3.55	11.636	1.0658	*
1.95	5.48	13.481	1.1297	**
1.95	7.42	15.619	1.1937	**
6.49	13.87	18.098	1.2576	******
6.49	20.32	20.966	1.3215	*******
15.58	35.81	24.291	1.3854	******************
18.18	53.87	28.142	1.4494	********************
16.88	70.65	32.605	1.5133	******************
12.99	83.55	37.776	1.5772	**************
7.14	90.65	43.766	1.6411	********
3.90	94.52	50.706	1.7051	****
1.95	96.45	58.747	1.7690	**
0.65	97.10	68.063	1.8329	*
0.65	97.74	78.856	1.8968	*
0.00	97.74	91.361	1.9608	
1.30	99.03	105.849	2.0247	*
0.00	99.03	122.634	2.0886	
0.65	99.68	142.081	2.1525	*

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS

PROBABILITY PLOT



LOGARITHMIC VALUES
VARIABLE = CR
UNIT = PPM
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.3350	0.1317	60.0
2	1.5924	0.1336	40.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = CR — Unit = PPM — N = 28

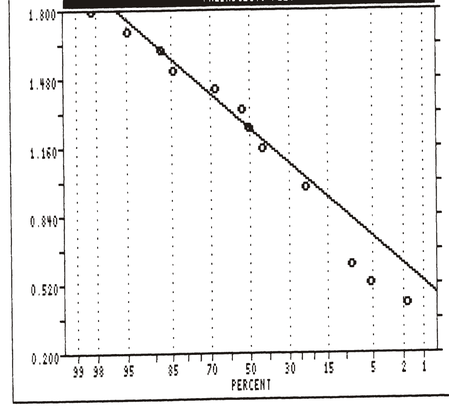
Mean =	1.2405	Min =	0.4771	1st Quartile =	1.1139
Std. Dev. =	0.3089	Max =	1.7482	Median =	1.2553
CV % =	24.9051	Skewness =	-0.5489	3rd Quartile =	1.4914
Anti-Log Mean =	17.397	Anti-Log Std. Dev. :		(-)	8.542
				(+)	35.434

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0908)
0.00	1.72	2.702	0.4317	
3.57	5.17	3.331	0.5225	*
3.57	8.62	4.105	0.6133	*
0.00	8.62	5.059	0.7041	
0.00	8.62	6.236	0.7949	
0.00	8.62	7.686	0.8857	
14.29	22.41	9.473	0.9765	****
0.00	22.41	11.675	1.0673	
21.43	43.10	14.390	1.1580	******
7.14	50.00	17.735	1.2488	**
3.57	53.45	21.859	1.3396	*
14.29	67.24	26.941	1.4304	****
17.86	84.48	33.206	1.5212	*****
3.57	87.93	40.926	1.6120	*
7.14	94.83	50.442	1.7028	**
3.57	98.28	62.170	1.7936	*

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS

PROBABILITY PLOT



LOGARITHMIC VALUES
VARIABLE = CR
UNIT = PPM
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.2405	0.3089	100.0

USERS VISUAL PARAMETER ESTIMATES

REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

PAPER 1987-1: GEOLOGICAL FIELDWORK
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STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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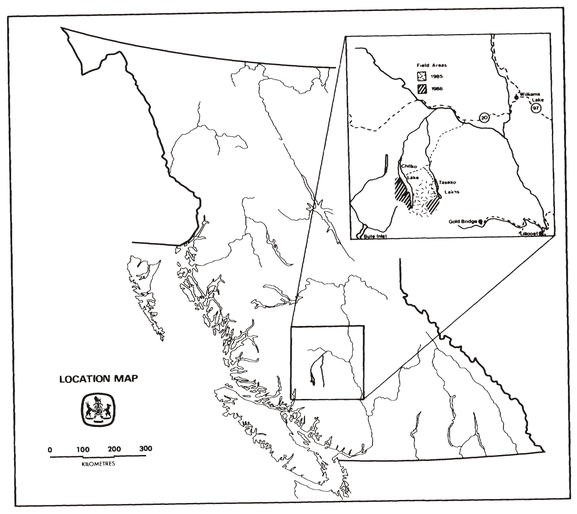
LOCATION MAP



0 100 200 300
KILOMETRES

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

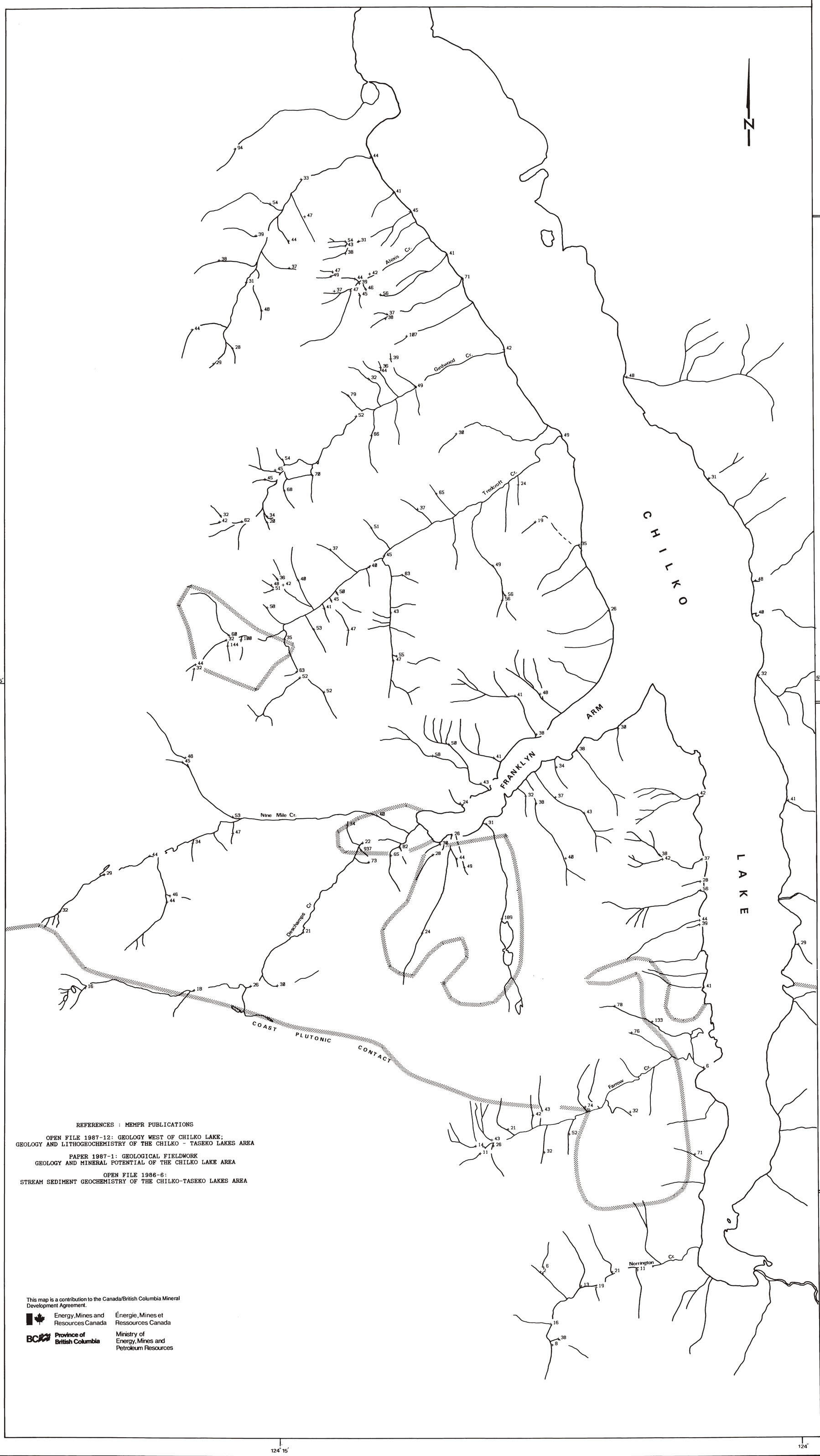
(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 8
STREAM SEDIMENT GEOCHEMISTRY
COPPER (PPM)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

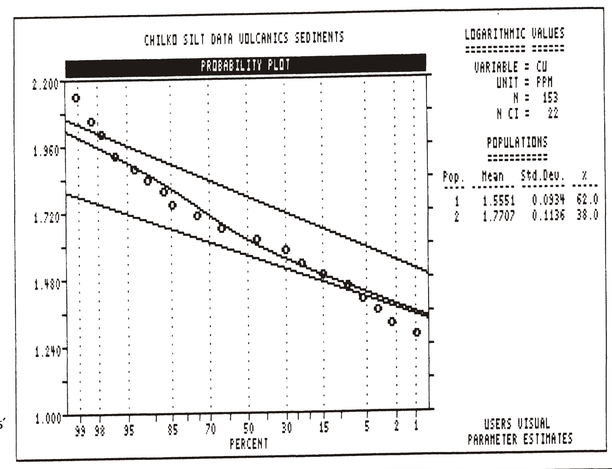
Variable = CU — Unit = PPM — N = 153

Mean =	1.6361	Min =	1.2553	1st Quartile =	1.5652
Std. Dev. =	0.1471	Max =	2.1584	Median =	1.6335
CV % =	8.9937	Skewness =	0.4744	3rd Quartile =	1.6990
Anti-Log Mean =	43.262	Anti-Log Std. Dev. :		(-)	30.829
				(+)	60.709

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0430)
0.00	0.32	17.131	1.2338	
0.65	0.97	18.914	1.2768	*
1.31	2.27	20.882	1.3198	*
1.31	3.57	23.056	1.3628	*
1.96	5.52	25.456	1.4058	**
2.61	8.12	28.106	1.4488	***
6.54	14.61	31.031	1.4918	*******
7.84	22.40	34.261	1.5348	********
7.19	29.55	37.827	1.5778	*******
15.03	44.48	41.765	1.6208	**********
18.95	63.31	46.112	1.6638	**********
11.76	75.00	50.912	1.7068	**********
9.80	84.74	56.211	1.7498	**********
2.61	87.34	62.082	1.7928	***
3.92	91.23	68.522	1.8358	****
2.61	93.83	75.654	1.8788	***
2.61	96.43	83.529	1.9218	***
0.00	96.43	92.224	1.9648	
1.31	97.73	101.823	2.0078	*
0.65	98.38	112.422	2.0509	*
0.00	98.38	124.124	2.0939	
0.65	99.03	137.044	2.1369	*
0.65	99.68	151.309	2.1799	*

0 1 2 3 4

Excluding one high value of 973ppm



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

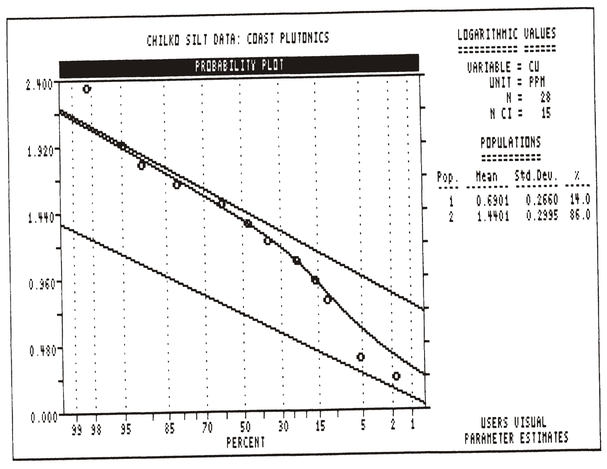
SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

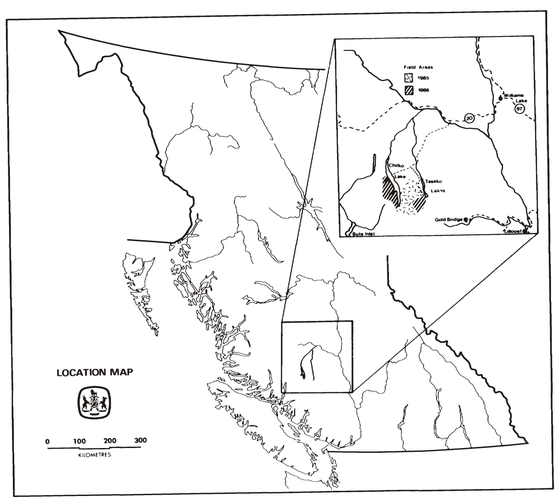
Variable = CU — Unit = PPM — N = 28

Mean =	1.3522	Min =	0.3010	1st Quartile =	1.1461
Std. Dev. =	0.3902	Max =	2.2765	Median =	1.4150
CV % =	28.8558	Skewness =	-0.3782	3rd Quartile =	1.6335
Anti-Log Mean =	22.499	Anti-Log Std. Dev. :		(-)	9.162
				(+)	55.252

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.1411)
0.00	1.72	1.700	0.2305	
3.57	5.17	2.353	0.3716	*
0.00	5.17	3.256	0.5127	
0.00	5.17	4.506	0.6538	
7.14	12.07	6.236	0.7949	**
3.57	15.52	8.630	0.9360	*
7.14	22.41	11.942	1.0771	**
14.29	36.21	16.527	1.2182	****
10.71	46.55	22.872	1.3593	***
14.29	60.34	31.652	1.5004	****
21.43	81.03	43.803	1.6415	******
10.71	91.38	60.618	1.7826	***
3.57	94.83	83.889	1.9237	*
0.00	94.83	116.094	2.0648	
0.00	94.83	160.661	2.2059	
3.57	98.28	222.338	2.3470	*

0 1 2 3 4





REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

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Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 9
STREAM SEDIMENT GEOCHEMISTRY
IRON (%)

0 1 2 3 4
KILOMETRES

N

CHILKO LAKE

ARM

FRANKLYN

Alexis Cr.

Girdwood Cr.

Tredcroft Cr.

Nine Mile Cr.

Deschamps Cr

Farrow Cr.

Norrington Cr.

COAST PLUTONIC CONTACT

51°15′

124°15′

124°

REFERENCES : MEMPR PUBLICATIONS

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SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

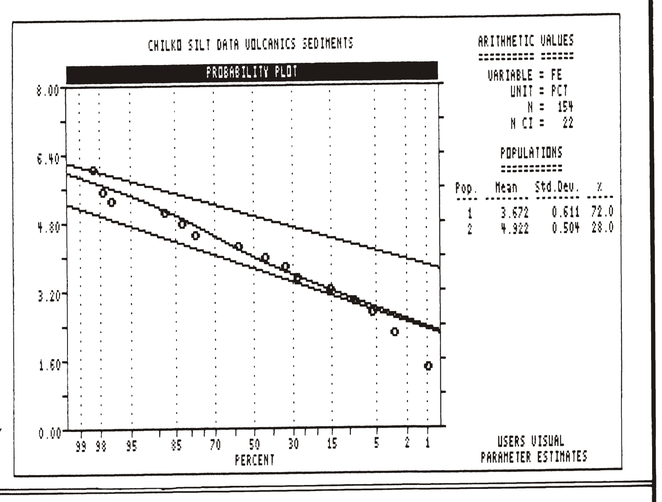
SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

Variable = FE — Unit = PCT — N = 154

Mean =	4.030	Min =	1.300	1st Quartile =	3.410
Std. Dev. =	0.820	Max =	6.700	Median =	4.110
CV % =	20.342	Skewness =	-0.025	3rd Quartile =	4.485

%	cum %	cls int	(# of bins = 22 - bin size = 0.257)
0.00	0.32	1.171	
0.65	0.97	1.429	*
0.00	0.97	1.686	
0.00	0.97	1.943	
1.95	2.90	2.200	**
0.00	2.90	2.457	
2.60	5.48	2.714	***
3.25	8.71	2.971	****
6.49	15.16	3.229	*******
12.34	27.42	3.486	************
5.84	33.23	3.743	******
10.39	43.55	4.000	**********
14.29	57.74	4.257	**************
20.13	77.74	4.514	********************
5.19	82.90	4.771	******
5.19	88.06	5.029	******
9.09	97.10	5.286	**********
0.65	97.74	5.543	*
0.00	97.74	5.800	
0.65	98.39	6.057	*
0.00	98.39	6.314	
0.00	98.39	6.571	
1.30	99.68	6.829	*

0 1 2 3 4



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

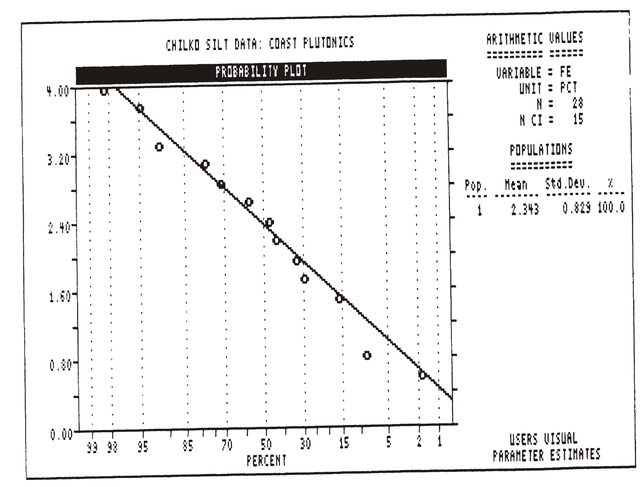
SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

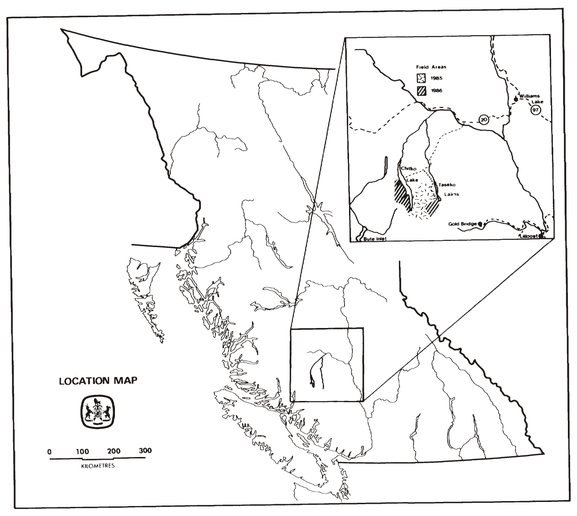
Variable = FE — Unit = PCT — N = 28

Mean =	2.343	Min =	0.690	1st Quartile =	1.680
Std. Dev. =	0.829	Max =	3.860	Median =	2.390
CV % =	35.386	Skewness =	-0.208	3rd Quartile =	3.050

%	cum %	cls int	(# of bins = 15 - bin size = 0.226)
0.00	1.72	0.577	
7.14	8.62	0.803	**
0.00	8.62	1.030	
0.00	8.62	1.256	
7.14	15.52	1.482	**
14.29	29.31	1.709	****
3.57	32.76	1.935	*
10.71	43.10	2.162	***
3.57	46.55	2.388	*
10.71	56.90	2.615	***
14.29	70.69	2.841	****
7.14	77.59	3.067	**
14.29	91.38	3.294	****
0.00	91.38	3.520	
3.57	94.83	3.747	*
3.57	98.28	3.973	*

0 1 2 3 4





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GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 10
STREAM SEDIMENT GEOCHEMISTRY
MERCURY (PPB)

0 1 2 3 4
KILOMETRES

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = HG — Unit = PPB — N = 153

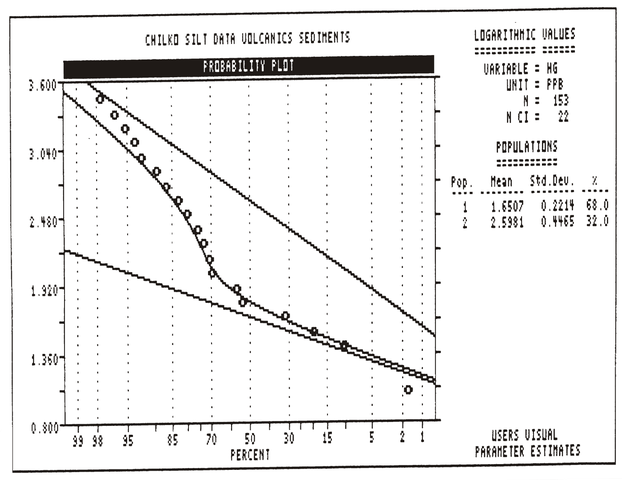
Mean =	1.9769	Min =	1.0000	1st Quartile =	1.6021
Std. Dev. =	0.5677	Max =	3.5185	Median =	1.7782
CV % =	28.7192	Skewness =	0.9495	3rd Quartile =	2.3617

Anti-Log Mean = 94.819 — Anti-Log Std. Dev. : (-) 25.654 (+) 350.464

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.1199)
0.00	0.32	8.710	0.9400	
1.31	1.62	11.481	1.0600	*
0.00	1.62	15.132	1.1799	
0.00	1.62	19.944	1.2998	
8.50	10.06	26.288	1.4198	*********
9.15	19.16	34.648	1.5397	**********
12.42	31.49	45.668	1.6596	************
22.22	53.57	60.192	1.7795	**********************
3.27	56.82	79.336	1.8995	****
12.42	69.16	104.568	2.0194	************
1.31	70.45	137.825	2.1393	*
2.61	73.05	181.659	2.2593	***
2.61	75.65	239.434	2.3792	***
3.92	79.55	315.584	2.4991	****
3.27	82.79	415.953	2.6190	****
3.92	86.69	548.244	2.7390	****
2.61	89.29	722.609	2.8589	***
3.27	92.53	952.428	2.9788	****
1.31	93.83	1255.341	3.0988	*
1.31	95.13	1654.592	3.2187	*
1.31	96.43	2180.821	3.3386	*
1.31	97.73	2874.414	3.4585	*
1.96	99.68	3788.598	3.5785	**

0 1 2 3 4

Excluding one high value of 36,000ppb



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = HG — Unit = PPB — N = 28

Mean =	1.4542	Min =	1.3010	1st Quartile =	1.3010
Std. Dev. =	0.1536	Max =	1.7782	Median =	1.4771
CV % =	10.5647	Skewness =	0.6574	3rd Quartile =	1.4771

Anti-Log Mean = 28.459 — Anti-Log Std. Dev. : (-) 19.979 (+) 40.537

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0341)
0.00	1.72	19.230	1.2840	
39.29	39.66	20.800	1.3181	**********
0.00	39.66	22.498	1.3522	
0.00	39.66	24.335	1.3862	
0.00	39.66	26.321	1.4203	
0.00	39.66	28.470	1.4544	
39.29	77.59	30.794	1.4885	**********
0.00	77.59	33.308	1.5226	
0.00	77.59	36.027	1.5566	
0.00	77.59	38.968	1.5907	
7.14	84.48	42.149	1.6248	**
0.00	84.48	45.590	1.6589	
0.00	84.48	49.312	1.6930	
7.14	91.38	53.337	1.7270	**
0.00	91.38	57.691	1.7611	
7.14	98.28	62.401	1.7952	**

0 1 2 3 4

DATA DOES NOT PROVIDE A MEANINGFUL PROBABILITY PLOT

REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

PAPER 1987-1: GEOLOGICAL FIELDWORK
GEOLOGY AND MINERAL POTENTIAL OF THE CHILKO LAKE AREA

OPEN FILE 1986-6:
STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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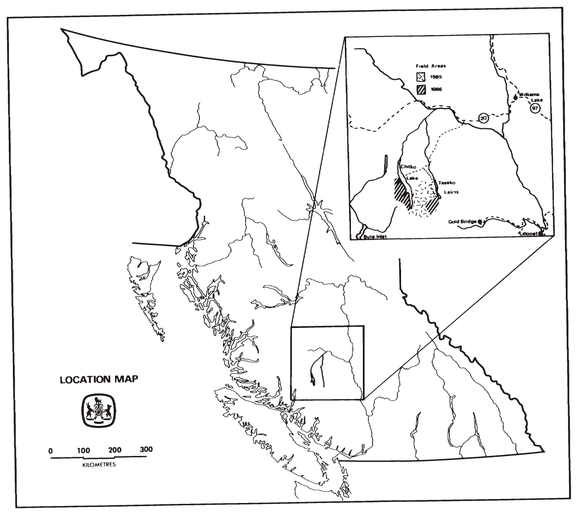


Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 11
STREAM SEDIMENT GEOCHEMISTRY
MANGANESE (PPM)

0 1 2 3 4
KILOMETRES

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

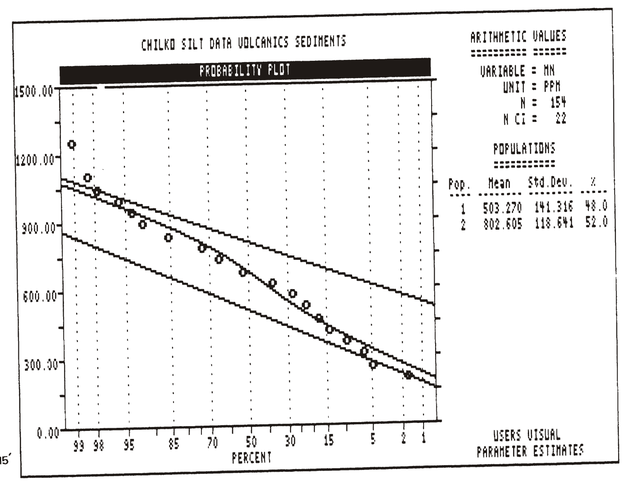
Variable = MN — Unit = PPM — N = 154

Mean =	659.656	Min =	179.000	1st Quartile =	568.500
Std. Dev. =	198.834	Max =	1286.000	Median =	678.000
CV % =	30.142	Skewness =	-0.149	3rd Quartile =	789.500

(# of bins = 22 - bin size = 52.714)

%	cum %	cls int	
0.00	0.32	152.643	
1.30	1.61	205.357	*
3.25	4.84	258.071	****
1.30	6.13	310.786	*
3.25	9.35	363.500	****
4.55	13.87	416.214	*****
3.25	17.10	468.929	****
4.55	21.61	521.643	*****
5.84	27.42	574.357	******
9.74	37.10	627.071	**********
15.58	52.58	679.786	***************
12.34	64.84	732.500	************
8.44	73.23	785.214	*********
12.34	85.48	837.929	************
6.49	91.94	890.643	*******
1.95	93.87	943.357	**
1.95	95.81	996.071	**
1.95	97.74	1048.786	**
0.65	98.39	1101.500	*
0.00	98.39	1154.214	
0.00	98.39	1206.929	
0.65	99.03	1259.643	*
0.65	99.68	1312.357	*

0 1 2 3 4



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

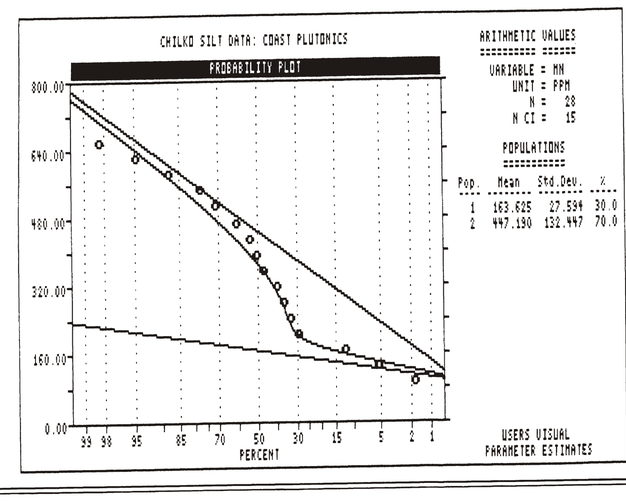
Variable = MN — Unit = PPM — N = 28

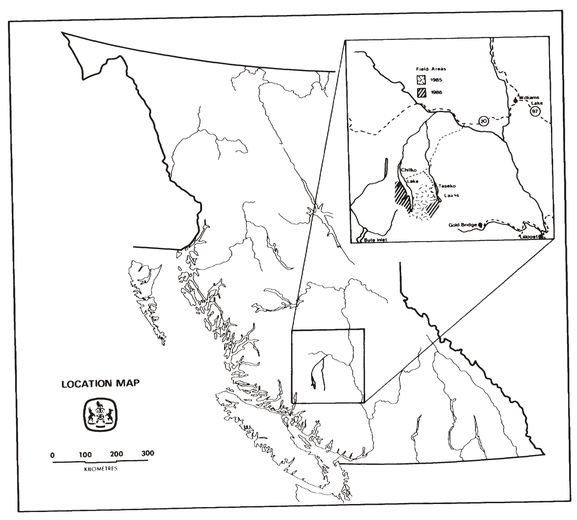
Mean =	375.000	Min =	111.000	1st Quartile =	200.000
Std. Dev. =	171.316	Max =	639.000	Median =	406.000
CV % =	45.684	Skewness =	-0.029	3rd Quartile =	526.000

(# of bins = 15 - bin size = 37.714)

%	cum %	cls int	
0.00	1.72	92.143	
3.57	5.17	129.857	*
7.14	12.07	167.571	**
17.86	29.31	205.286	*****
3.57	32.76	243.000	*
3.57	36.21	280.714	*
3.57	39.66	318.429	*
7.14	46.55	356.143	**
3.57	50.00	393.857	*
3.57	53.45	431.571	*
7.14	60.34	469.286	**
10.71	70.69	507.000	***
7.14	77.59	544.714	**
10.71	87.93	582.429	***
7.14	94.83	620.143	**
3.57	98.28	657.857	*

0 1 2 3 4





REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

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OPEN FILE 1986-6:
STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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Province of British Columbia / Ministry of Energy, Mines and Petroleum Resources

51°15'

124°15'

124°

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 12
STREAM SEDIMENT GEOCHEMISTRY
NICKEL (PPM)

0 1 2 3 4
KILOMETRES

CHILKO LAKE

FRANKLYN ARM

Alexis Cr.

Girdwood Cr.

Tredcroft Cr.

Nine Mile Cr.

Deschamps Cr.

Farrow Cr.

Norrington Cr.

COAST PLUTONIC CONTACT

51°15'

124°15'

124°

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

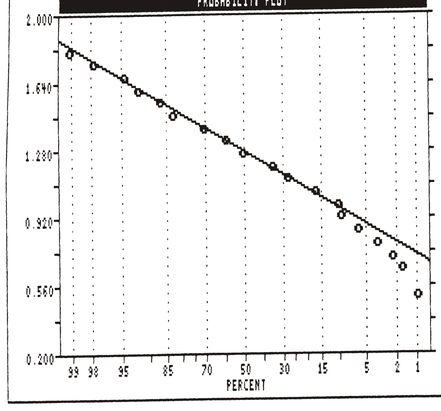
Variable = NI — Unit = PPM — N = 154

Mean =	1.2671	Min =	0.4771	1st Quartile =	1.1139
Std. Dev. =	0.2371	Max =	1.9085	Median =	1.2788
CV % =	18.7103	Skewness =	-0.2594	3rd Quartile =	1.4150
Anti-Log Mean =	18.496	Anti-Log Std. Dev. :		(-)	10.715
				(+)	31.926

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0682)
0.00	0.32	2.774	0.4430	
0.65	0.97	3.245	0.5112	*
0.00	0.97	3.796	0.5794	
0.65	1.61	4.441	0.6475	*
0.65	2.26	5.196	0.7157	*
1.30	3.55	6.079	0.7838	*
2.60	6.13	7.112	0.8520	***
3.25	9.35	8.321	0.9202	****
0.65	10.00	9.735	0.9883	*
6.49	16.45	11.389	1.0565	*******
11.04	27.42	13.324	1.1246	**********
7.14	34.52	15.588	1.1928	********
15.58	50.00	18.237	1.2610	**********
9.09	59.03	21.337	1.3291	**********
11.04	70.00	24.962	1.3973	**********
12.99	82.90	29.204	1.4654	**********
3.90	86.77	34.167	1.5336	****
5.19	91.94	39.973	1.6018	******
2.60	94.52	46.765	1.6699	***
3.25	97.74	54.712	1.7381	****
1.30	99.03	64.010	1.8062	*
0.00	99.03	74.887	1.8744	
0.65	99.68	87.612	1.9426	*

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS



LOGARITHMIC VALUES
VARIABLE = NI
UNIT = PPM
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.2671	0.2371	100.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

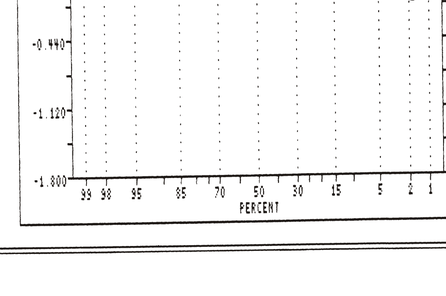
Variable = NI — Unit = PPM — N = 28

Mean =	0.8804	Min =	0.0000	1st Quartile =	0.6021
Std. Dev. =	0.3498	Max =	1.4771	Median =	0.9031
CV % =	39.7279	Skewness =	-0.5937	3rd Quartile =	1.1461
Anti-Log Mean =	7.593	Anti-Log Std. Dev. :		(-)	3.393
				(+)	16.989

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.1055)
0.00	1.72	0.886	-0.0528	
3.57	5.17	1.129	0.0528	*
0.00	5.17	1.440	0.1583	
0.00	5.17	1.836	0.2638	
7.14	12.07	2.340	0.3693	**
0.00	12.07	2.984	0.4748	
3.57	15.52	3.805	0.5803	*
14.29	29.31	4.851	0.6858	****
7.14	36.21	6.185	0.7913	**
3.57	39.66	7.885	0.8968	*
21.43	60.34	10.054	1.0023	******
7.14	67.24	12.819	1.1078	**
17.86	84.48	16.344	1.2133	*****
7.14	91.38	20.838	1.3189	**
3.57	94.83	26.568	1.4244	*
3.57	98.28	33.875	1.5299	*

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS



LOGARITHMIC VALUES
VARIABLE = NI
UNIT = PPM
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.8804	0.3498	100.0

USERS VISUAL PARAMETER ESTIMATES

REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

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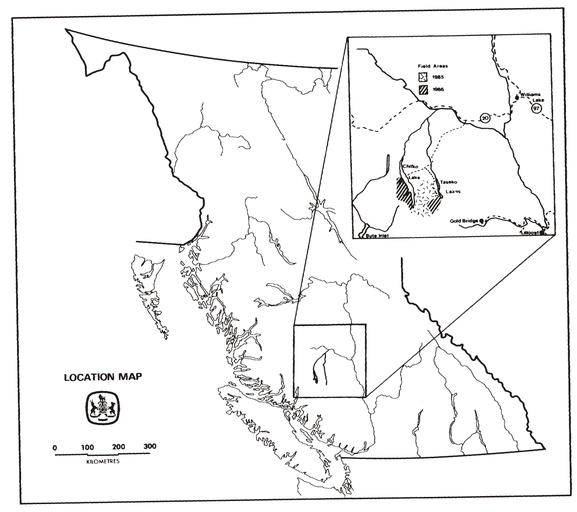


VALUES OF 1 REPRESENT AN ANALYSIS OF LESS THAN THE 1ppm DETECTION LIMIT

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

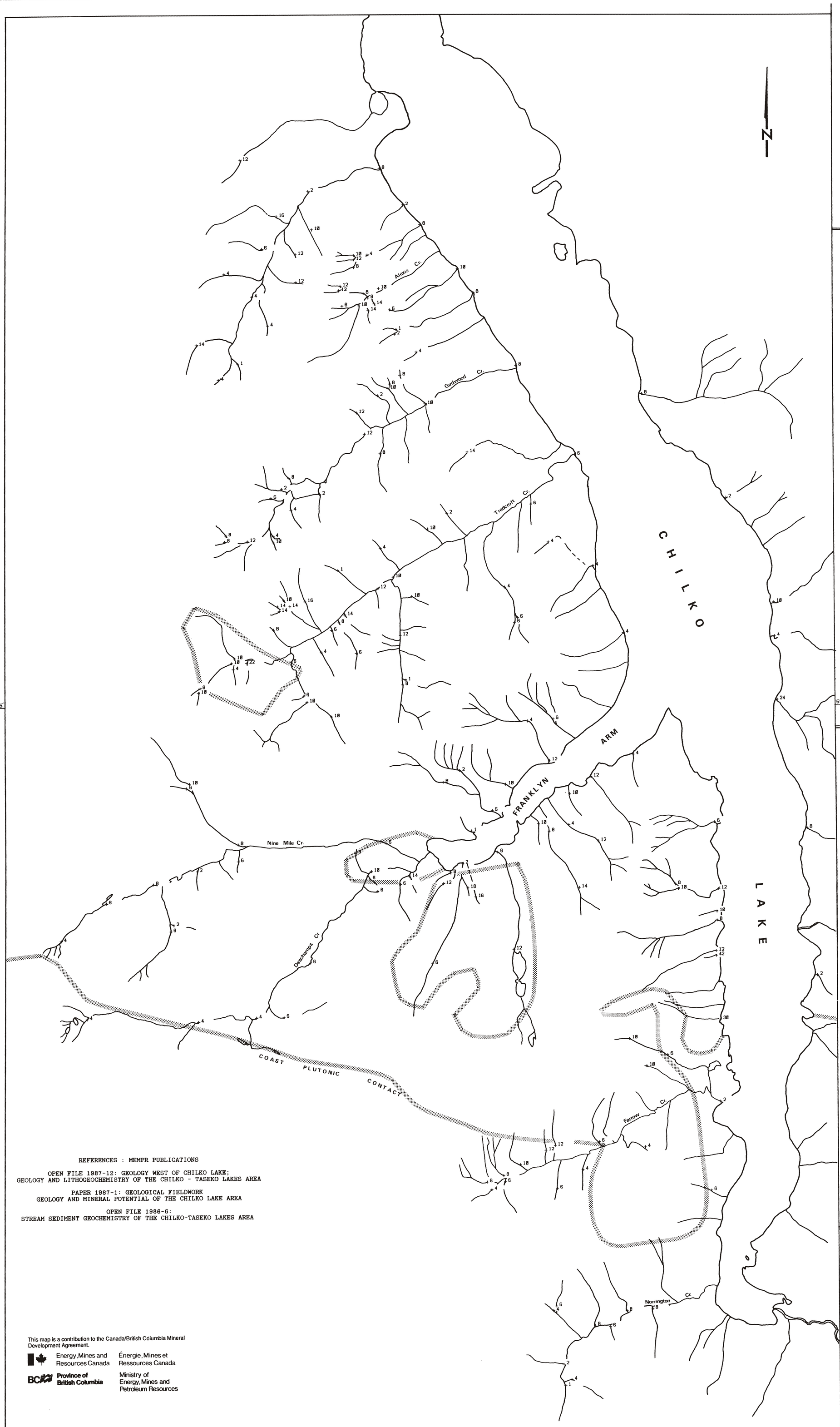
(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 13
STREAM SEDIMENT GEOCHEMISTRY
LEAD (PPM)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

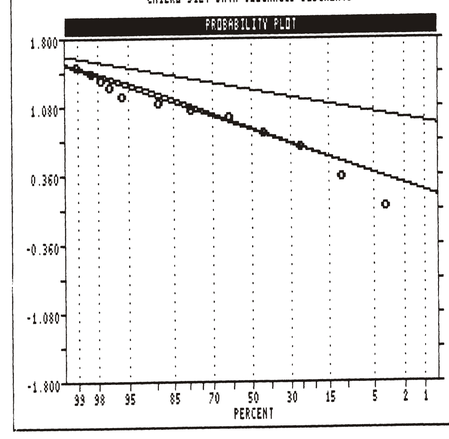
Variable = PB — Unit = PPM — N = 154

Mean =	0.8305	Min =	0.0000	1st Quartile =	0.6021
Std. Dev. =	0.2897	Max =	1.6232	Median =	0.9031
CV % =	34.8783	Skewness =	-0.8161	3rd Quartile =	1.0000
Anti-Log Mean =	6.768	Anti-Log Std. Dev. :		(-)	3.474
				(+)	13.186

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0773)
0.00	0.32	0.915	-0.0386	
3.25	3.55	1.093	0.0386	****
0.00	3.55	1.306	0.1159	
0.00	3.55	1.560	0.1932	
0.00	3.55	1.864	0.2705	
7.79	11.29	2.228	0.3478	********
0.00	11.29	2.662	0.4251	
0.00	11.29	3.180	0.5024	
0.00	11.29	3.800	0.5797	
14.29	25.48	4.540	0.6570	**********
0.00	25.48	5.424	0.7343	
18.18	43.55	6.481	0.8116	**********
0.00	43.55	7.743	0.8889	
18.18	61.61	9.252	0.9662	**********
17.53	79.03	11.054	1.0435	**********
10.39	89.35	13.207	1.1208	**********
6.49	95.81	15.780	1.1981	*******
1.30	97.10	18.854	1.2754	*
0.65	97.74	22.527	1.3527	*
0.65	98.39	26.916	1.4300	*
0.65	99.03	32.159	1.5073	*
0.00	99.03	38.424	1.5846	
0.65	99.68	45.909	1.6619	*

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS



LOGARITHMIC VALUES
VARIABLE = PB
UNIT = PPM
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.8085	0.2720	93.0
2	1.2308	0.1466	7.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

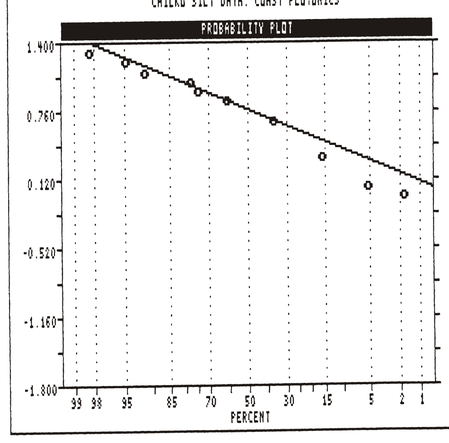
Variable = PB — Unit = PPM — N = 28

Mean =	0.7625	Min =	0.0000	1st Quartile =	0.6021
Std. Dev. =	0.2951	Max =	1.2553	Median =	0.7782
CV % =	38.6968	Skewness =	-0.5850	3rd Quartile =	1.0000
Anti-Log Mean =	5.788	Anti-Log Std. Dev. :		(-)	2.934
				(+)	11.419

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0897)
0.00	1.72	0.902	-0.0448	
3.57	5.17	1.109	0.0448	*
0.00	5.17	1.363	0.1345	
0.00	5.17	1.676	0.2242	
10.71	15.52	2.060	0.3138	***
0.00	15.52	2.532	0.4035	
0.00	15.52	3.113	0.4931	
0.00	15.52	3.827	0.5828	
21.43	36.21	4.704	0.6725	******
0.00	36.21	5.783	0.7621	
25.00	60.34	7.109	0.8518	*******
14.29	74.14	8.739	0.9415	****
3.57	77.59	10.743	1.0311	*
14.29	91.38	13.206	1.1208	****
3.57	94.83	16.235	1.2104	*
3.57	98.28	19.957	1.3001	*

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS



LOGARITHMIC VALUES
VARIABLE = PB
UNIT = PPM
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.7625	0.2951	100.0

USERS VISUAL PARAMETER ESTIMATES

REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
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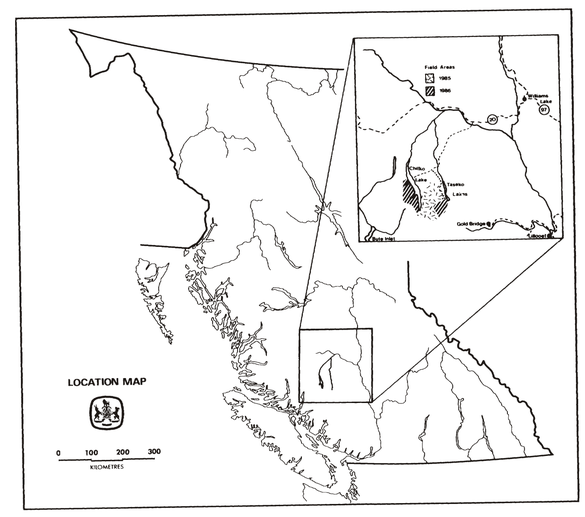
VALUES OF 1 REPRESENT AN ANALYSIS OF LESS THAN THE 2ppm DETECTION LIMIT



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Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

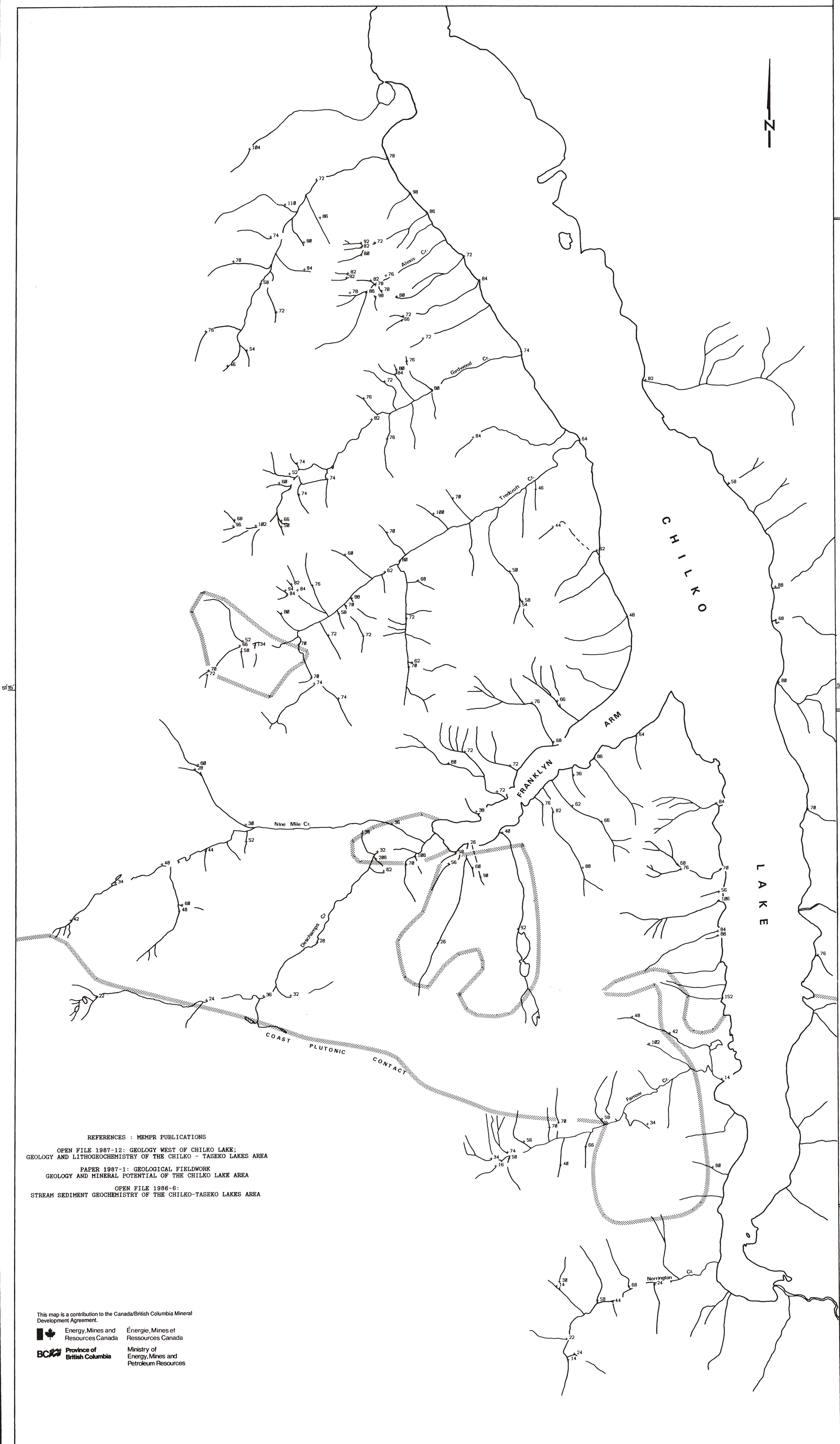
(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 14
STREAM SEDIMENT GEOCHEMISTRY
ZINC (PPM)

0 1 2 3 4
KILOMETRES



SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

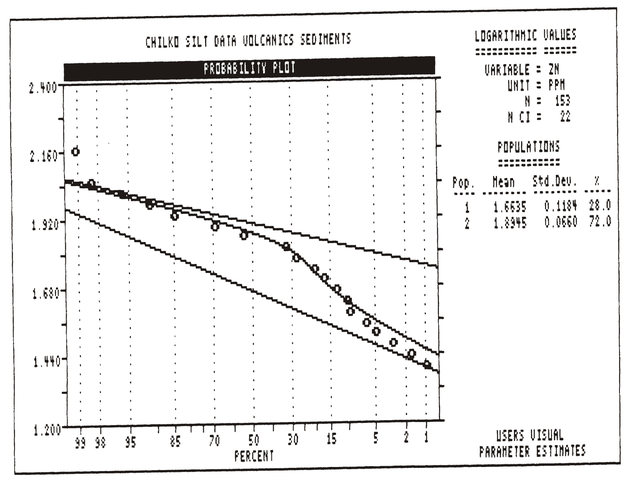
Variable = ZN — Unit = PPM — N = 153

Mean =	1.8269	Min =	1.3802	1st Quartile =	1.7745
Std. Dev. =	0.1377	Max =	2.1818	Median =	1.8573
CV % =	7.5360	Skewness =	-1.0194	3rd Quartile =	1.9058
Anti-Log Mean =	67.123	Anti-Log Std. Dev. :		(-)	48.888
				(+)	92.161

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0382)
0.00	0.32	22.968	1.3611	
0.65	0.97	25.078	1.3993	*
0.65	1.62	27.382	1.4375	*
1.31	2.92	29.898	1.4756	*
1.96	4.87	32.645	1.5138	**
1.31	6.17	35.644	1.5520	*
3.27	9.42	38.919	1.5902	****
0.65	10.06	42.495	1.6283	*
2.61	12.66	46.399	1.6665	***
3.92	16.56	50.662	1.7047	****
3.27	19.81	55.316	1.7429	****
7.84	27.60	60.399	1.7810	********
4.58	32.14	65.948	1.8192	*****
22.22	54.22	72.007	1.8574	**********
14.38	68.51	78.622	1.8955	**********
16.34	84.74	85.846	1.9337	**********
6.54	91.23	93.733	1.9719	*******
4.58	95.78	102.345	2.0101	*****
2.61	98.38	111.748	2.0482	***
0.00	98.38	122.014	2.0864	
0.00	98.38	133.225	2.1246	
0.65	99.03	145.465	2.1628	*
0.65	99.68	158.829	2.2009	*

0 1 2 3 4

Excluding one high value of 206ppm



SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

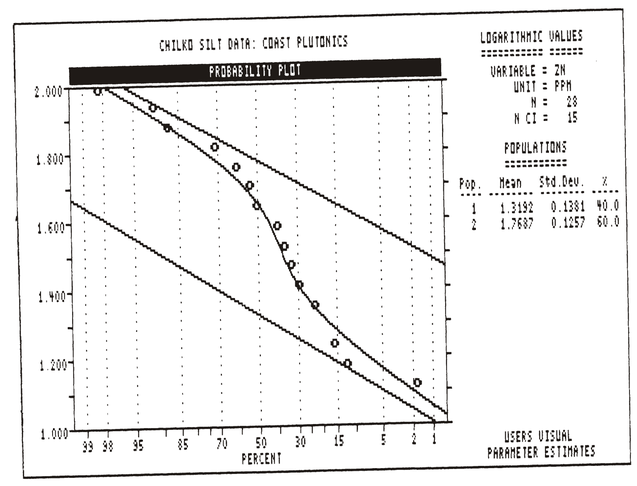
SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = ZN — Unit = PPM — N = 28

Mean =	1.6006	Min =	1.1461	1st Quartile =	1.3802
Std. Dev. =	0.2606	Max =	1.9638	Median =	1.6435
CV % =	16.2839	Skewness =	-0.4102	3rd Quartile =	1.8325
Anti-Log Mean =	39.864	Anti-Log Std. Dev. :		(-)	21.875
				(+)	72.646

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0584)
0.00	1.72	13.090	1.1169	
10.71	12.07	14.974	1.1753	***
3.57	15.52	17.129	1.2337	*
0.00	15.52	19.595	1.2921	
7.14	22.41	22.415	1.3505	**
7.14	29.31	25.642	1.4089	**
3.57	32.76	29.333	1.4674	*
3.57	36.21	33.555	1.5258	*
3.57	39.66	38.385	1.5842	*
10.71	50.00	43.910	1.6426	***
3.57	53.45	50.231	1.7010	*
7.14	60.34	57.461	1.7594	**
10.71	70.69	65.732	1.8178	***
17.86	87.93	75.194	1.8762	*****
3.57	91.38	86.017	1.9346	*
7.14	98.28	98.399	1.9930	**

0 1 2 3 4



REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

PAPER 1987-1: GEOLOGICAL FIELDWORK
GEOLOGY AND MINERAL POTENTIAL OF THE CHILKO LAKE AREA

OPEN FILE 1986-6:
STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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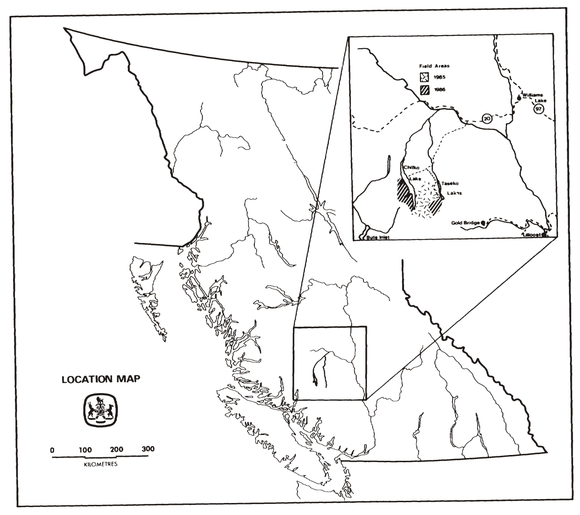

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 15
STREAM SEDIMENT GEOCHEMISTRY
STRONTIUM (PPM)

0 1 2 3 4
KILOMETRES

CHILKO LAKE

FRANKLYN ARM

Alexis Cr.
Girdwood Cr.
Tredcroft Cr.
Nine Mile Cr.
Deschamps Cr.
Farrow Cr.
Norrington Cr.

COAST PLUTONIC CONTACT

51°15′

124°15′

124°

REFERENCES : MEMPR PUBLICATIONS

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GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

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SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

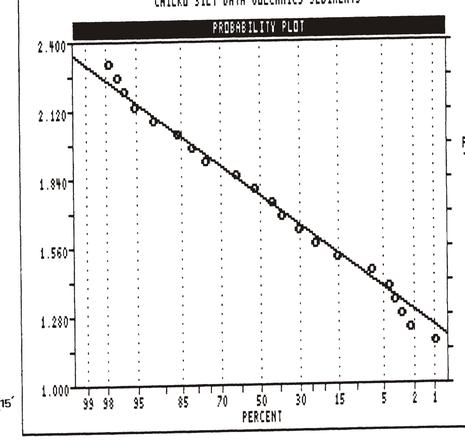
Variable = SR — Unit = PPM — N = 154

Mean =	1.7667	Min =	1.1461	1st Quartile =	1.5911
Std. Dev. =	0.2293	Max =	2.3365	Median =	1.7853
CV % =	12.9766	Skewness =	-0.0244	3rd Quartile =	1.9004
Anti-Log Mean =	58.441	Anti-Log Std. Dev. :		(-)	34.471
				(+)	99.077

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0567)
0.00	0.32	13.116	1.1178	
0.65	0.97	14.944	1.1745	*
1.30	2.26	17.028	1.2312	*
0.65	2.90	19.401	1.2878	*
0.65	3.55	22.106	1.3445	*
0.65	4.19	25.188	1.4012	*
2.60	6.77	28.700	1.4579	***
8.44	15.16	32.701	1.5146	*********
7.79	22.90	37.260	1.5712	********
7.14	30.00	42.455	1.6279	*******
8.44	38.39	48.374	1.6846	*********
5.19	43.55	55.118	1.7413	******
9.09	52.58	62.802	1.7980	**********
9.74	62.26	71.558	1.8547	**********
14.29	76.45	81.534	1.9113	***************
5.19	81.61	92.902	1.9680	******
4.55	86.13	105.854	2.0247	*****
5.84	91.94	120.611	2.0814	******
3.25	95.16	137.427	2.1381	****
1.30	96.45	156.586	2.1948	*
0.65	97.10	178.417	2.2514	*
0.65	97.74	203.291	2.3081	*
1.95	99.68	231.633	2.3648	**

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS



LOGARITHMIC VALUES
VARIABLE = SR
UNIT = PPM
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.7667	0.2293	100.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

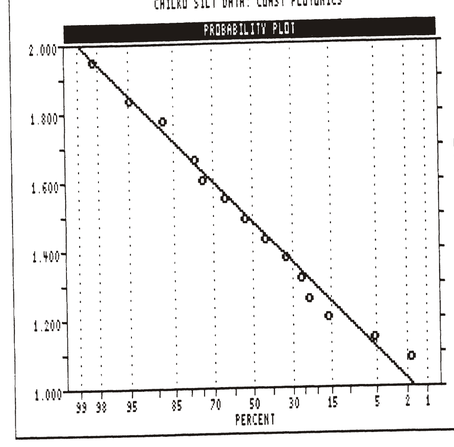
Variable = SR — Unit = PPM — N = 28

Mean =	1.4746	Min =	1.1139	1st Quartile =	1.3222
Std. Dev. =	0.2241	Max =	1.9243	Median =	1.4771
CV % =	15.2011	Skewness =	0.1356	3rd Quartile =	1.6335
Anti-Log Mean =	29.823	Anti-Log Std. Dev. :		(-)	17.799
				(+)	49.969

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0579)
0.00	1.72	12.162	1.0850	
3.57	5.17	13.896	1.1429	*
10.71	15.52	15.877	1.2008	***
7.14	22.41	18.140	1.2586	**
3.57	25.86	20.727	1.3165	*
7.14	32.76	23.681	1.3744	**
10.71	43.10	27.058	1.4323	***
10.71	53.45	30.915	1.4902	***
10.71	63.79	35.323	1.5481	***
10.71	74.14	40.358	1.6059	***
3.57	77.59	46.112	1.6638	*
0.00	77.59	52.686	1.7217	
10.71	87.93	60.197	1.7796	***
7.14	94.83	68.779	1.8375	**
0.00	94.83	78.585	1.8953	
3.57	98.28	89.788	1.9532	*

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS

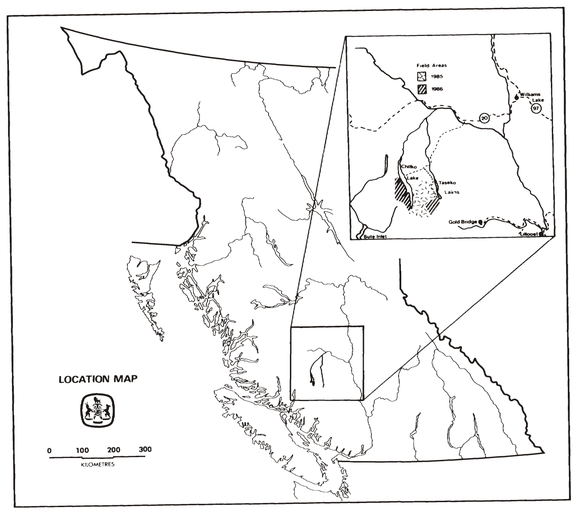


LOGARITHMIC VALUES
VARIABLE = SR
UNIT = PPM
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.4746	0.2241	100.0

USERS VISUAL PARAMETER ESTIMATES



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 16
STREAM SEDIMENT GEOCHEMISTRY
TITANIUM (%)

0 1 2 3 4
KILOMETRES

N

CHILKO LAKE

FRANKLYN ARM

Alexis Cr.

Girdwood Cr.

Tredcroft Cr.

Nine Mile Cr.

Deschamps Cr.

Farrow Cr.

Norrington Cr.

COAST PLUTONIC CONTACT

51°15'

124°15'

124°

REFERENCES : MEMPR PUBLICATIONS

OPEN FILE 1987-12: GEOLOGY WEST OF CHILKO LAKE;
GEOLOGY AND LITHOGEOCHEMISTRY OF THE CHILKO - TASEKO LAKES AREA

PAPER 1987-1: GEOLOGICAL FIELDWORK
GEOLOGY AND MINERAL POTENTIAL OF THE CHILKO LAKE AREA

OPEN FILE 1986-6:
STREAM SEDIMENT GEOCHEMISTRY OF THE CHILKO-TASEKO LAKES AREA

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Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada

Province of British Columbia / Ministry of Energy, Mines and Petroleum Resources

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

Variable = TI — Unit = PCT — N = 154

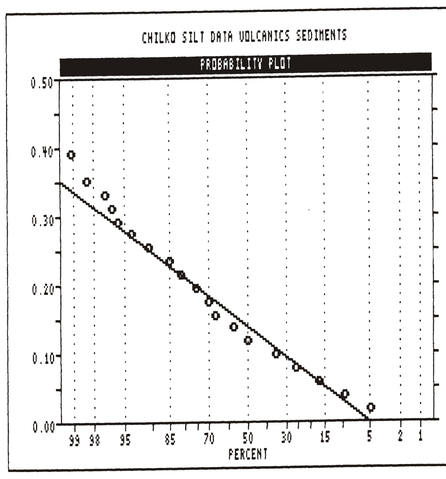
Mean =	0.136	Min =	0.010	1st Quartile =	0.070
Std. Dev. =	0.085	Max =	0.420	Median =	0.120
CV % =	62.153	Skewness =	0.758	3rd Quartile =	0.190

%	cum %	cls int	(# of bins = 22 - bin size = 0.020)
0.00	0.32	0.000	
4.55	4.84	0.020	*****
4.55	9.35	0.039	*****
7.14	16.45	0.059	********
9.09	25.48	0.078	**********
9.09	34.52	0.098	**********
14.94	49.35	0.117	**********
7.79	57.10	0.137	********
9.09	66.13	0.156	**********
3.25	69.35	0.176	****
5.84	75.16	0.195	******
5.84	80.97	0.215	******
3.90	84.84	0.235	****
5.84	90.65	0.254	******
3.25	93.87	0.274	****
1.95	95.81	0.293	**
0.65	96.45	0.313	*
0.65	97.10	0.332	*
1.30	98.39	0.352	*
0.00	98.39	0.371	
0.65	99.03	0.391	*
0.00	99.03	0.410	
0.65	99.68	0.430	*

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS

PROBABILITY PLOT



ARITHMETIC VALUES
VARIABLE = TI
UNIT = PCT
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.136	0.085	100.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — ARITHMETIC VALUES

Variable = TI — Unit = PCT — N = 28

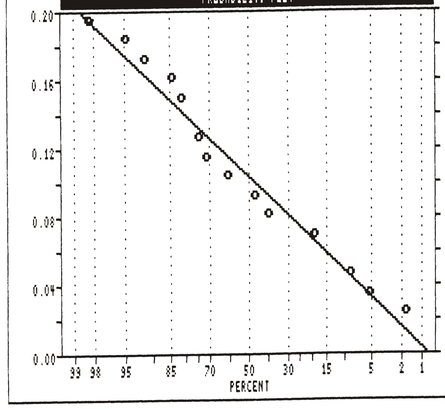
Mean =	0.102	Min =	0.030	1st Quartile =	0.070
Std. Dev. =	0.043	Max =	0.190	Median =	0.100
CV % =	41.784	Skewness =	0.487	3rd Quartile =	0.140

%	cum %	cls int	(# of bins = 15 - bin size = 0.011)
0.00	1.72	0.024	
3.57	5.17	0.036	*
3.57	8.62	0.047	*
0.00	8.62	0.059	
10.71	18.97	0.070	***
21.43	39.66	0.081	******
7.14	46.55	0.093	**
14.29	60.34	0.104	****
10.71	70.69	0.116	***
3.57	74.14	0.127	*
0.00	74.14	0.139	
7.14	81.03	0.150	**
3.57	84.48	0.161	*
7.14	91.38	0.173	**
3.57	94.83	0.184	*
3.57	98.28	0.196	*

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS

PROBABILITY PLOT

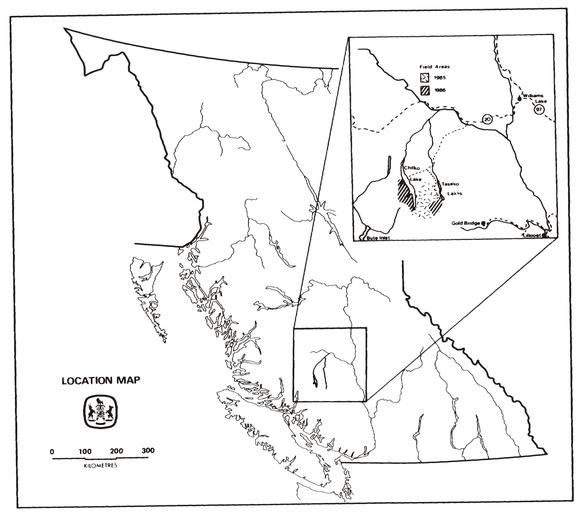


ARITHMETIC VALUES
VARIABLE = TI
UNIT = PCT
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	0.103	0.043	100.0

USERS VISUAL PARAMETER ESTIMATES



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Geological Survey Branch

GEOCHEMISTRY WEST OF CHILKO LAKE

(92N/1, 8)

OPEN FILE MAP 1987–14

BY G.P. McLAREN

MAP 17
STREAM SEDIMENT GEOCHEMISTRY
VANADIUM (PPM)

0 1 2 3 4
KILOMETRES

CHILKO LAKE

FRANKLYN ARM

Alexis Cr.

Girdwood Cr.

Tredcroft Cr.

Nine Mile Cr.

Deschamps Cr.

Farrow Cr.

Norrington Cr.

COAST PLUTONIC CONTACT

51°15′

124°15′

124°

SILT DATA FROM VOLCANIC AND SEDILMENTARY ROCKS

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = V — Unit = PPM — N = 154

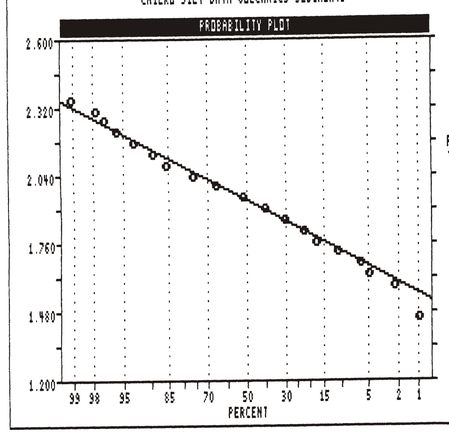
Mean =	1.9330	Min =	1.4314	1st Quartile =	1.8293
Std. Dev. =	0.1643	Max =	2.3766	Median =	1.9445
CV % =	8.4986	Skewness =	-0.1374	3rd Quartile =	2.0354

Anti-Log Mean = 85.696 — Anti-Log Std. Dev. : (-) 58.706 (+) 125.094

%	cum %	antilog	cls int	(# of bins = 22 - bin size = 0.0450)
0.00	0.32	25.636	1.4089	
0.65	0.97	28.436	1.4539	*
0.00	0.97	31.541	1.4989	
0.00	0.97	34.986	1.5439	
1.30	2.26	38.806	1.5889	*
2.60	4.84	43.044	1.6339	***
1.30	6.13	47.744	1.6789	*
4.55	10.65	52.958	1.7239	*****
6.49	17.10	58.741	1.7689	*******
4.55	21.61	65.155	1.8140	*****
8.44	30.00	72.270	1.8590	********
9.74	39.68	80.162	1.9040	**********
11.69	51.29	88.916	1.9490	**********
14.29	65.48	98.626	1.9940	**********
10.39	75.81	109.396	2.0390	**********
9.74	85.48	121.342	2.0840	**********
3.90	89.35	134.593	2.1290	****
3.90	93.23	149.290	2.1740	****
2.60	95.81	165.593	2.2190	***
1.30	97.10	183.676	2.2641	*
0.65	97.74	203.733	2.3091	*
1.30	99.03	225.981	2.3541	*
0.65	99.68	250.658	2.3991	*

0 1 2 3 4

CHILKO SILT DATA VOLCANICS SEDIMENTS — PROBABILITY PLOT



LOGARITHMIC VALUES
VARIABLE = V
UNIT = PPM
N = 154
N CI = 22

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.9330	0.1643	100.0

USERS VISUAL PARAMETER ESTIMATES

SILT DATA FROM COAST PLUTONIC ROCKS

NOTE SMALL POPULATION SIZE: n=28

SUMMARY STATISTICS and HISTOGRAM — LOGARITHMIC VALUES

Variable = V — Unit = PPM — N = 28

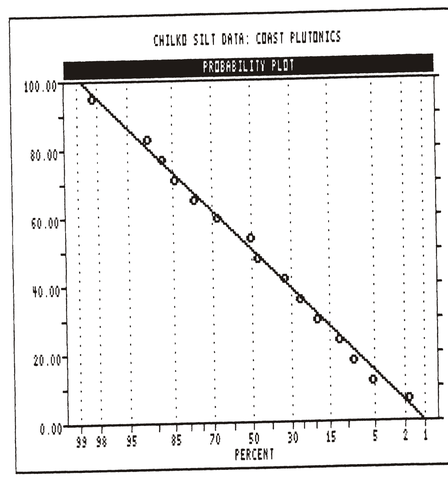
Mean =	1.6478	Min =	0.9542	1st Quartile =	1.5563
Std. Dev. =	0.2422	Max =	1.9638	Median =	1.7324
CV % =	14.6971	Skewness =	-1.2058	3rd Quartile =	1.8129

Anti-Log Mean = 44.438 — Anti-Log Std. Dev. : (-) 25.444 (+) 77.612

%	cum %	antilog	cls int	(# of bins = 15 - bin size = 0.0721)
0.00	1.72	8.283	0.9182	
3.57	5.17	9.779	0.9903	*
0.00	5.17	11.545	1.0624	
3.57	8.62	13.631	1.1345	*
0.00	8.62	16.093	1.2066	
0.00	8.62	18.999	1.2787	
3.57	12.07	22.431	1.3508	*
7.14	18.97	26.483	1.4230	**
0.00	18.97	31.266	1.4951	
10.71	29.31	36.913	1.5672	***
10.71	39.66	43.580	1.6393	***
10.71	50.00	51.452	1.7114	***
17.86	67.24	60.745	1.7835	*****
17.86	84.48	71.717	1.8556	*****
7.14	91.38	84.671	1.9277	**
7.14	98.28	99.964	1.9998	**

0 1 2 3 4

CHILKO SILT DATA: COAST PLUTONICS — PROBABILITY PLOT



ARITHMETIC VALUES
VARIABLE = V
UNIT = PPM
N = 28
N CI = 15

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	50.179	21.680	100.0

USERS VISUAL PARAMETER ESTIMATES

REFERENCES : MEMPR PUBLICATIONS

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OPEN FILE 1986-6:
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LOCATION MAP