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ASSESSMENT REPORT

1987 GEOCHEMICAL SURVEY

for

LANGDALE RESOURCES LTD.

FILMED

on the

McKEN CLAIM GROUP

54°48'43" 126°49'54"

OMINECA
~~SMITHERS~~ M.D.

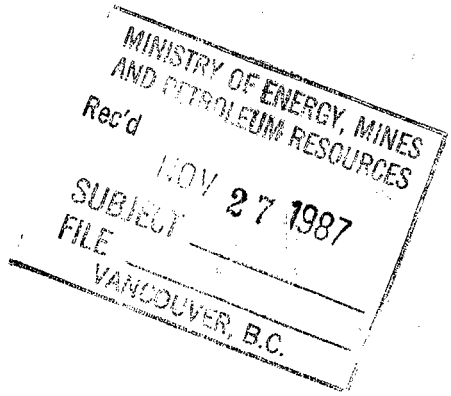
N.T.S. ~~92I / 8W~~
93L/15W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,580

November 25, 1987
Vancouver, B.C.

K. Capnerhurst, B.Sc.
L. Sookochoff, P. Eng.
SOOKOCHOFF CONSULTANTS INC.


MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
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SUBJECT
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VANCOUVER, B.C.

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ASSESSMENT REPORT

1987 GEOCHEMICAL SURVEY

on the

McKEN CLAIM GROUP

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1. INTRODUCTION

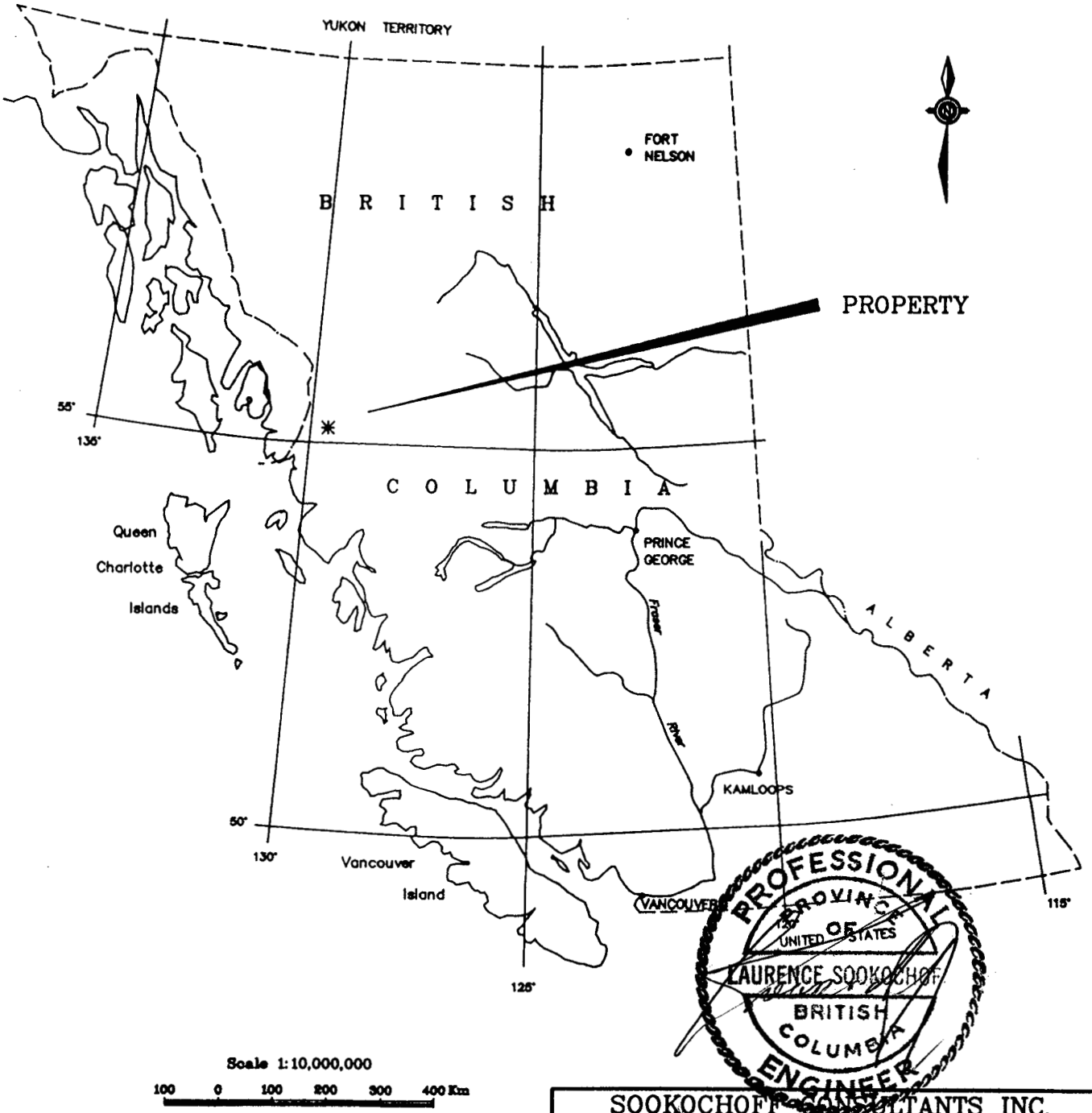
During August of 1987 localized geochemical surveys were carried out on the McKen Claim Group. The purpose of the survey was to locate indicators of potential gold mineralization which could subsequently lead to the location of economic mineralized zones.

This report relates the work completed, the analysis of results and the conclusions derived from the results.

2. SUMMARY

The McKen Claim Group is located 21 km east of Smithers, B.C. in the Smithers Mining Division, and predominantly covers the Hazelton Group of volcanics and sedimentary rocks.

The region has been explored for mineral deposits since the late 1890's with numerous localized mineral occurrences being located. Dome Mountain, which



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
UNITED STATES
LAURENCE SOOKOCHOFF

SOOKOCHOFF CONSULTANTS INC.

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS
SMITHERS M.D.

LOCATION MAP

SCALE: as shown	DATE: Nov. '87	N.T.S. 93I/8W	DRAWN BY: GEO—COMP	FIGURE: 1

is located ten kilometers to the southwest, has indicated reserves of 400,000 tons grading 0.43 oz/ton gold with silver and base metal values.

3. PROPERTY

The property is comprised of three located continuous mineral claims totaling 60 units. Particulars are as follows:

Claim Name	Units	Record No.	Expiry Date
McKen 4	20	7241	August 31, 1988*
McKen 5	20	7242	August 31, 1988*
McKen 8	20	7245	August 31, 1988*

*Upon approval of one years assessment work applied August 27, 1987, for which this report forms a part thereof.

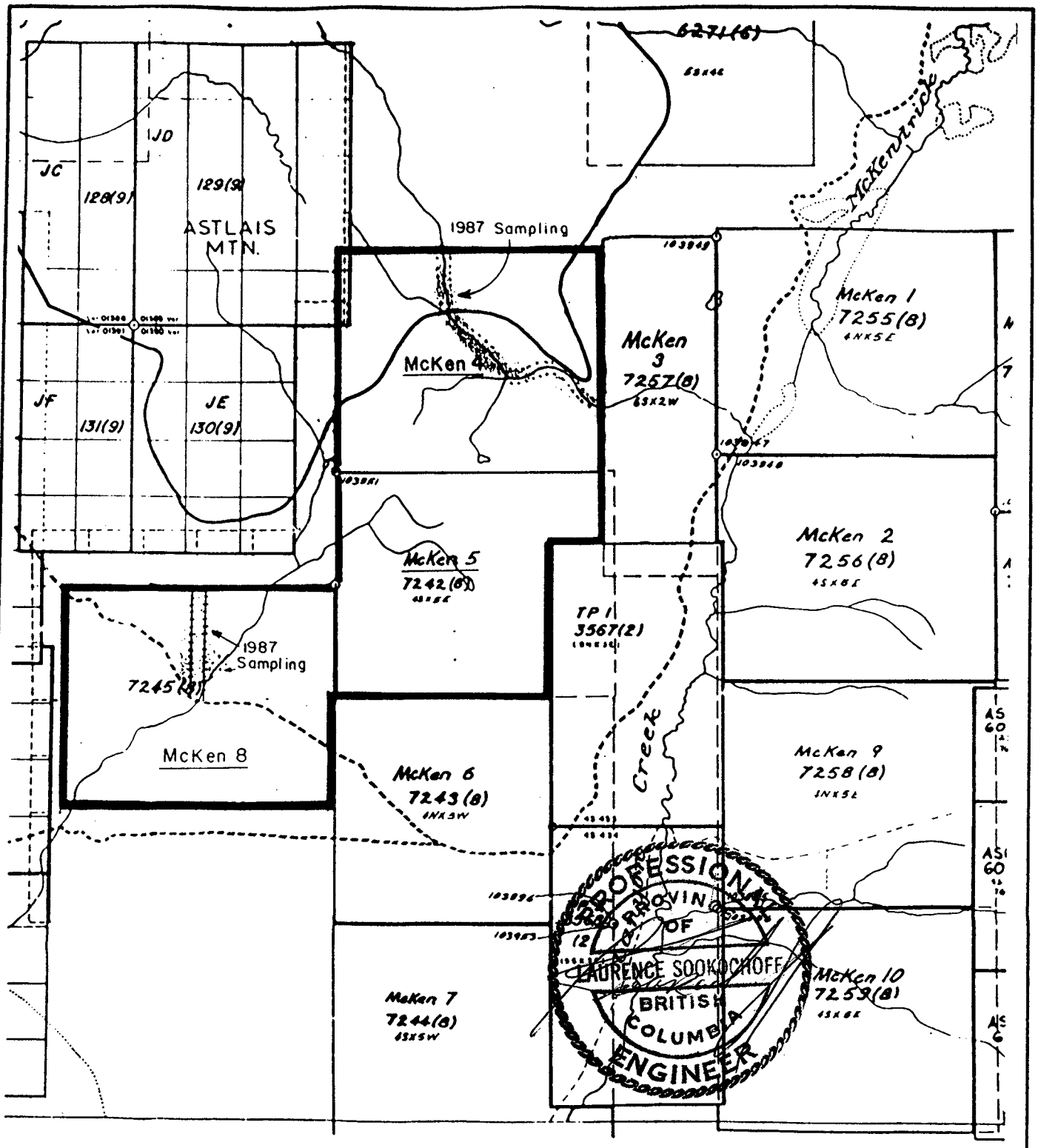
4. LOCATION AND ACCESS

The property is located 21 km due east of Smithers in north central British Columbia. The legal corner post of McKen 8 is located at 126°50'02"W and 54°47'30"N, while that of McKen 4 and 5 is at 126°51'02"W and 54°48'03"N.

Access to the property is via the Babine Lake Road which runs through McKen 8 and just east of the McKen 4 and 5 claim boundaries.

5. TRANSPORTATION AND SUPPLIES

Smithers is some 1300 km from Vancouver and 600 km from Prince George. Most supplies for the exploration and development program would be available in Smithers.



SOOKOCHOFF CONSULTANTS INC.

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS
SMITHERS M.D.

CLAIM & INDEX MAP

SCALE: as shown	DATE: Nov. '87	N.T.S. 93L/8W	DRAWN BY: GEO-COMP	FIGURE: 2

6. PHYSIOGRAPHY

The claims lie on the southeastern flank of Astlais Mountain with the upper reaches of Canyon Creek bisecting McKen 4. The terrain slopes moderately southward, steepening somewhat near Canyon Creek. Rock outcroppings are abundant locally. Elevations on the property range from 1050 to 1400 meters.

The vegetation is predominantly pine and balsam with local poplar; however, logging has been quite extensive in the area, leaving numerous cut blocks.

7. WATER AND POWER

Sufficient water for the exploration program should be available from lakes and/or water courses on or adjacent to the property.

8. HISTORY

The Dome Mountain region has been the object of continued mineral exploration since the late 1800's. During the succeeding years numerous mineral occurrences were located. The first development work on Dome Mountain occurred between 1922-1924 when the Cabin, Forks, June and Ptarmigan veins were mined by the Federal Mining and Smelting Co. of New York.

Between 1932-1940 Babine Gold Mines Ltd. operated the Free Gold Property on the southeast flank of Dome Mountain. This prospect has subsequently been investigated by various companies including Reako Exploration Ltd. and Panther Mines Ltd. who performed underground development work in the early 1980's.

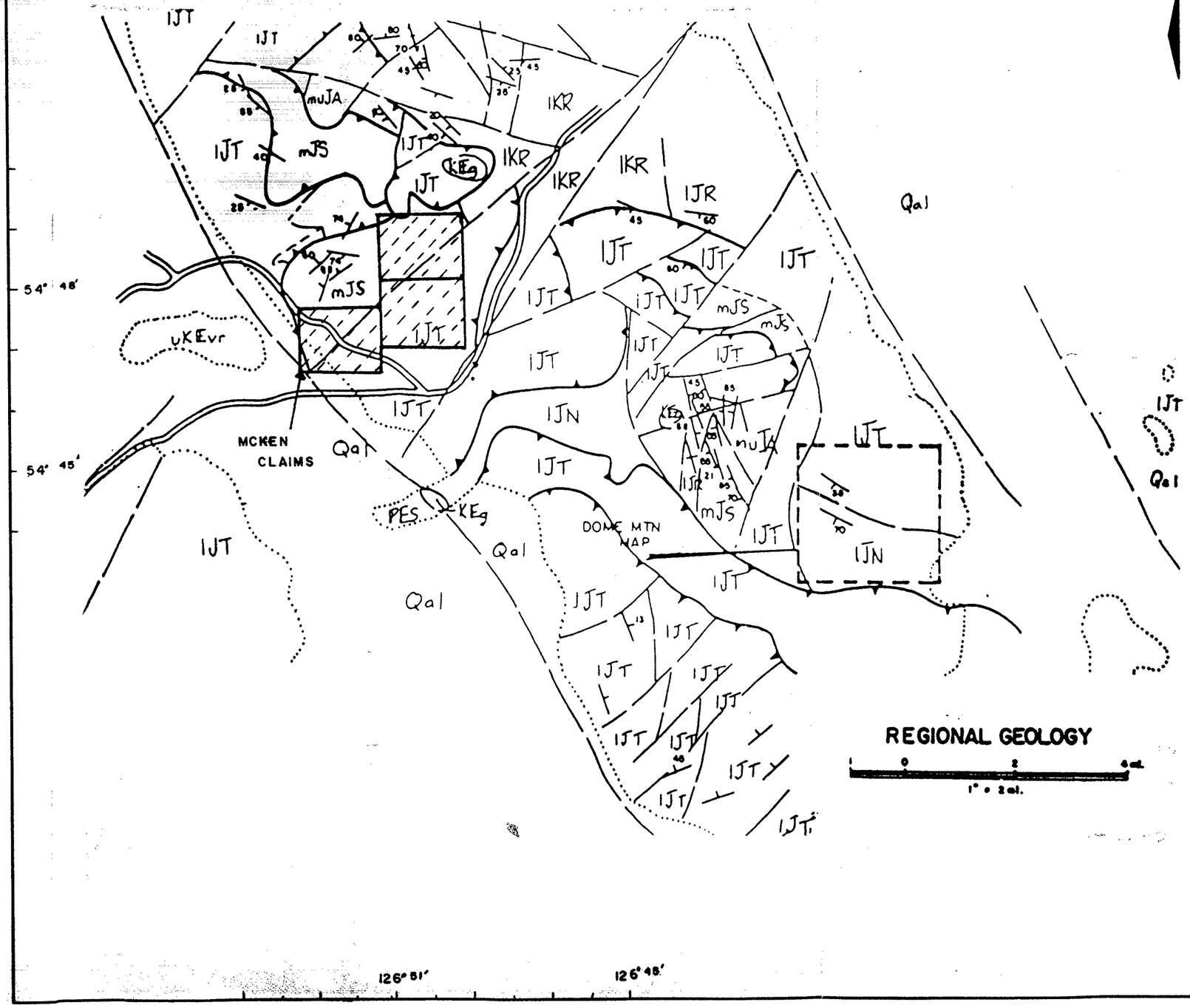
Noranda Exploration Co. Ltd. acquired the option to many of the Dome Mountain properties by 1984, carried out an extensive work program in 1984-85. Results of this work were the discovery of two new mineralized zones and the further delineation of four existing zones. In 1985 Canadian United Minerals and Teeshin Resources Ltd. acquired Noranda's option on the property. Further drilling in 1986 indicated reserves in the order of 400,000 tons grading 0.43 oz/ton gold with silver and base metal values.

There are also numerous other mineral occurrences and prospects in the vicinity of the McKen Claims which have undergone varying degrees of exploration. Included in these are the Big Onion porphyry copper-molybdenum occurrences (4 km northwest), the Cronine Babine Mine silver-gold-lead-zinc veins (15 km north), the Ascot lead-zinc-copper occurrences (7 km east) and the Summit porphyry copper occurrences (7 km southeast).

In 1986 Reno Resources Ltd. carried out geochemical and geophysical work on the McKen 6 and 7 claims. These two claims abut on the southern boundary of McKen 5 and the eastern boundary of McKen 8. Numerous anomalous zones were located within the claims using these exploration techniques.

9. GEOLOGY AND MINERALIZATION

The property is underlain by lower to middle Jurassic Hazelton Group rocks consisting of eugeosynclinal assemblages of subaerial to submarine volcanics, volcaniclastic and sedimentary rocks. The Hazelton Group has been subdivided into three formations by Tipper and Richards (1976). The Telkwa Formation is the oldest, thickest, and most extensive and is comprised of subaerial to submarine pyroclastic and flow rocks with minor intercalated sedimentary rocks. The Nilkitkwa Formation of red pyroclastic, marine sedimentary and intercalated rhyolite to basalt flows, conformably to disconformably overlies the Telkwa Formation. The youngest formation is the Smithers Formation which



REGIONAL GEOLOGY

0 2 4 mi.

1" = 2 mi.

REGIONAL GEOLOGY MAP LEGEND :

LATE CRETACEOUS AND EOCENE

KEg — UNDIVIDED: QUARTZ DIORITE, QUARTZ MONZONITE AND GRANODIORITE. IN PART PORPHYRITIC, MANY SMALL FELSIC PLUTONS.

HAZELTON GROUP

LOWER BAJOCIAN TO LOWER CALLOVIAN

mJS — SMITHERS FORMATION: GREY–BROWN GREENISH–GREY TO DRAB GREY GREYWACKE, LITHIC SANDSTONE, SILTSTONE, SHALE, TUFF BRECCIA, GRIT, GLAUCONITIC SANDSTONE; MINOR COGLOMERATE.

LOWER PLIENSBACHIAN TO MIDDLE TOARCIAN (?)

lJN — MILKITKWA FORMATION; DARK GREY SHALE, ANDESITIC TO RHYOLITIC TUFF; MINOR GREYWACKE.

MIDDLE TOARCIAN (?)

lJR — MILKITKWA FORMATION
RED TUFF MEMBER: RED TO BRICK RED, FINE–GRAINED, TUFF AND FINE BRECCIA.

SINEMURIAN AND (?) LOWER PLIENSBACHIAN

lJT — TELKWA FORMATION: VARIEGATED RED, MAROON, GREY GREEN BRECCIA, TUFF, AND FLOWS OF BASALTIC TO RHYOLITIC COMPOSITION.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF

SOOKOCHOFF CONSULTANTS INC.

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS

SMITHERS M.D.

REGIONAL GEOLOGY

SCALE: AS SHOWN	DATE: Nov.'87	N.T.S. 921/8W	DRAWN BY: GEO–COMP	FIGURE: 3

is comprised of fossiliferous sandstone and siltstone with minor intercalated felsic tuff. Stocks and plugs of intrusives also outcrop locally within the Hazelton Group.

Strike-slip faults are common as are thrust faults in the region. Strike-slip faults are found in two prominent directions, one trending northwest and the other trending northeast. Several thrust faults have also been located which bring the Telkwa Formation up onto itself as well as onto the Nilkitkwa and Smithers Formation.

The southeastern half of the McKen claims is underlain predominantly by fragmental volcanics belonging to the Telkwa Formation (Tipper and Richards, 1976). Agglomerate, breccia, tuff-breccia, lapilli tuff, lithic, crystal and ash tuff and flows of basalt to rhyolite composition occur in red, maroon, purple, grey and green colours. Clasts are comprised of porphyritic andesite or crystal tuff while crystal and lithic fragments make up the matrix. In contact with the Telkwa Formation in the northwest half of the claim group is the younger Smithers Formation: grey-brown greenish-grey to drag grey greywacke, lithic sandstone, siltstone, shale, tuff, breccia, grit, glauconitic sandstone, minor conglomerate.

The property is bisected by a northeasterly trending strike-slip fault.

Mineralization at Dome Mountain occurs as gold and silver values associated with quartz veins in sericite-carbonate-fuchsite altered massive andesite. Drill indicated reserves on the property are in the order of 400,000 tons grading 0.43 oz/ton gold, 2-3 oz/ton silver and 1-2% zinc.

There is no reported mineralization on the Langdale McKen Claims.

10. GEOCHEMICAL SURVEY (RECCE)

Survey Procedure

In the recce survey, localized sampling was carried out in two areas to follow up anomalous silt samples taken by the government in a recent survey. On McKen 4, samples were taken along Canyon Creek and 25 m on either side of the creek at 15 m intervals. On McKen 8, two parallel lines were run 25 m apart with samples being picked up every 15 m. Samples were selected from the top of the B horizon of the brown to greyish brown sandy-loam forest soil at a depth averaging 15 cm. The soil was placed in a brown wet-strength paper bags with the grid coordinates marked thereon. A total of 215 samples were picked up during the survey.

Testing Procedure

All samples were tested by Acme Laboratories of Vancouver, B.C. The testing procedure is first to thoroughly dry the sample and 0.50 grams of material is digested with 3 ml of 3:1:3 HCL to HNo3 + H_2O at 90° for one hour. The sample is diluted to 10 ml with water. The samples were then analyzed by atomic absorption for five metals -- copper, zinc, lead, silver and arsenic.

Statistical analysis of the data obtained for this group of samples was not carried out due to the low number of samples. However, statistical work carried out by Noranda at Dome Mountain and from inspection of the data reliable threshold values for the elements were established and are summarized as follows:

	Background	Anomalous	Highly Anomalous
Copper (ppm)	0 - 50	51 - 100	100+
Silver (ppm)	0 - 0.9	0.9 - 2.0	2.0+
Arsenic (ppm)	0 - 50	51 - 130	130+
Zinc (ppm)	0 - 160	21 - 50	250+
Lead (ppm)	0 - 20	21 - 50	50+

Results

From the results of the geochemical survey, anomalous zones were located on each of the claims sampled.

On McKen 8, a zone of anomalous As, Ag, Cu, and Zn occurs 150 m north of Babine Road. In this area, arsenic reaches 582 ppm, which is four times the anomalous threshold, and silver reaches 2.1 ppm, which is double the anomalous threshold. Anomalous copper values extend north and west from this point for 75 m.

On McKen 4, zones of high arsenic were located all along the south-western edge of the creek. Three samples taken within 150 m of Babine Lake Road reported 426, 446 and 1312 ppm respectively.

11. CONCLUSIONS

It is concluded that the initial geochemical survey was successful in locating potentially economic mineral zones and that soil geochemistry could be an effective exploration tool in delineating areas for follow-up exploration.

Future geochemical surveys should be performed in conjunction with EM surveys and line grid geological mapping. The results of the geochemical and geophysical surveys thus would be interpreted within a geological framework to establish definitive target areas for follow-up exploration.

12. RECOMMENDATIONS

It is recommended that recce geochemical and VLF-EM and geological surveys be completed on the McKen Claim Group. Grid lines at 125 meter intervals should

be established in an east-west direction with geochemical samples taken at 50 meter intervals and VLF-EM readings taken at 25 meter intervals. Geological mapping should include rock chip sampling with consideration given to degree of alteration and pyrite.

Respectfully Submitted,

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF

Laurence Sookochoff, P.Eng.

Kevin Capnerhurst, B.Sc.

13. REFERENCES

HOLLAND, R., Geochemical and Geophysical Report on the Canyon Creek Property for Reno Resources Ltd, August 1986.

MacINTYRE, D.G., Geology of the Dome Mountain Gold Camp, B.C. Ministry of Energy, Mines and Petroleum Resources, Paper 1985-1, 1984.

TIPPER, H.W., RICHARDS, T.A., Jurassic Stratigraphy and History of North-Central British Columbia, G.S.C. Bulletin 270, 1976.

TIPPER, H.W., RICHARDS, T.A., Smithers Map Sheet, 93L, G.S.C. Open File 351, 1976.

14. CERTIFICATE

I, Kevin Capnerhurst, of 265 Cedar Avenue, 100 Mile House, British Columbia, hereby certify that:

1. I am a graduate of the University of British Columbia (1986) and hold a B.Sc. degree in geology.

2. I am currently employed as a geologist with Sookochoff Consultants Inc., of #609-837 West Hastings Street, Vancouver, B.C. V6C 1B6.

3. I have been practising my profession for the past two years.

4. The information from this report was obtained from sources as cited under references, and from exploration surveys reported on herein.

5. I have no direct, indirect, or contingent interest in the property described herein nor in the securities of Langdale Resources Ltd.

Kevin Capnerhurst, B.Sc.
Geologist

15. CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify that:

I am a Consulting Geologist and principal of Sookochoff Consultants Inc. with offices at #609-837 West Hastings Street, Vancouver,B.C., V6C 1B6.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.

2. I have been practising my profession for the past twenty-one years.

3. I am registered and in good standing with the Association of Professional Engineers of British Columbia.

4. The information for this report was obtained from sources as cited under References and from supervision of the exploration surveys reported on herein.

5. I have no direct, indirect, or contingent interest in the property described herein.

6. I am a director and shareholder of Langdale Resources Ltd., the beneficial owner of the McKen Claim Group.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF

Laurence Sookochoff, P.Eng.
Consulting Geologist

November 25, 1987
Vancouver, B.C.

16. STATEMENT OF COSTS

The geochemical survey was performed on the McKen 4, 5 and 8 claims during the period of August 1st, 1987 to August 15th, 1987 to the value of:

Rod Husband, Ron Husband		
August 4th to 10th, 1987		
7 days @ $200/day	$ 1,400	
7 days @ $240/day	1,680	$ 3,080.60
Room and Board		
14 man days @ $50/day		700.00
Truck Rental, Km and Gas		
7 days @ $50/day		658.60
Assay - Acme Analytical		
215 sames @ $8.25		1,773.75
Field Expenses		287.65
Total		$ 6,500.00

APPENDIX I

ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL P = -20 mesh & pulverized. (Small Samples)

DATE RECEIVED: AUG 18 1987 DATE REPORT MAILED: Aug 26/87 ASSAYER. D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

SOOKOCHOFF PROJECT-MCKEN File # 87-3407 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
CK-A-0+00 P	1	40	20	97	.3	17	11	878	4.30	79	5	ND	5	19	2	2	2	46	.31	.067	10	26	.72	95	.03	3	1.25	.03	.09	1
CK-A-0+50 P	1	42	17	95	.2	17	10	766	4.23	74	5	ND	3	23	3	3	2	49	.32	.061	10	23	.64	110	.03	2	1.28	.04	.12	1
CK-A-1+00 P	1	39	17	94	.4	17	10	717	4.39	70	5	ND	5	20	3	2	2	51	.30	.060	9	23	.67	94	.03	5	1.25	.03	.09	1
CK-A-1+50 P	1	43	12	96	.6	18	11	720	4.82	77	5	ND	4	24	3	3	2	64	.33	.064	10	25	.68	121	.04	6	1.31	.04	.12	5
CK-A-2+00 P	1	41	18	103	.3	17	10	772	4.09	75	5	ND	3	23	1	3	2	44	.32	.062	10	21	.66	110	.03	2	1.26	.04	.11	1
CK-A-2+50 P	1	36	13	103	.6	16	10	701	4.08	67	5	ND	5	21	3	4	2	46	.30	.060	9	21	.67	111	.03	4	1.22	.03	.11	1
CK-A-3+00 P	1	46	19	98	.6	17	10	719	4.43	70	5	ND	5	25	3	3	2	54	.32	.062	10	23	.67	121	.03	5	1.36	.05	.15	1
CK-A-3+50 P	1	44	12	111	.3	17	10	731	4.20	70	5	ND	3	23	2	2	2	49	.31	.060	9	22	.65	108	.03	5	1.29	.05	.13	1
CK-A-4+00 P	1	49	19	104	1.9	18	10	746	4.37	69	5	ND	4	25	3	3	4	50	.33	.063	9	23	.68	119	.03	5	1.33	.04	.13	1
CK-A-4+50 P	1	38	17	98	.3	17	10	702	4.10	74	5	ND	4	20	4	2	2	45	.30	.062	9	22	.67	94	.03	4	1.21	.03	.10	1
CK-A-5+00 P	1	38	19	99	.2	16	9	731	3.86	68	5	ND	3	20	1	2	2	40	.30	.061	8	20	.64	91	.02	2	1.17	.03	.09	1
CK-A-5+50 P	1	40	17	95	.4	17	10	733	4.36	66	5	ND	5	23	3	6	2	55	.39	.066	9	22	.70	112	.03	4	1.27	.03	.11	1
CK-A-6+00 P	1	47	15	108	.3	18	11	920	4.22	83	5	ND	3	26	2	2	3	44	.37	.066	10	22	.65	119	.02	3	1.29	.03	.11	1
CK-A-6+50 P	1	44	17	94	.1	16	10	737	4.20	72	5	ND	2	25	1	2	2	48	.39	.065	10	21	.66	115	.03	2	1.22	.04	.10	1
CK-A-7+00 P	1	45	19	100	.4	17	11	813	4.14	74	5	ND	4	23	2	2	2	44	.37	.067	10	21	.65	105	.02	7	1.19	.03	.09	1
CK-A-7+50 P	1	37	15	96	.3	16	10	705	4.02	61	5	ND	3	22	2	2	2	44	.33	.062	9	22	.68	95	.02	3	1.27	.04	.12	2
CK-A-8+00 P	1	38	16	101	.4	16	10	660	4.17	64	5	ND	4	21	3	2	2	46	.30	.061	9	22	.69	108	.03	10	1.28	.04	.11	1
CK-A-8+50 P	1	38	15	95	.1	16	10	708	4.50	69	5	ND	1	20	1	2	2	53	.31	.062	8	23	.74	95	.03	2	1.28	.03	.09	2
CK-A-9+00 P	1	39	14	98	.1	16	10	754	4.27	66	5	ND	1	22	1	2	2	48	.30	.060	8	22	.70	101	.03	4	1.31	.04	.11	1
CK-A-9+50 P	1	36	13	89	.3	16	9	645	4.00	60	5	ND	2	18	1	2	2	42	.28	.058	8	21	.68	80	.02	7	1.15	.03	.07	1
CK-A-10+00 P	1	42	15	105	.3	16	10	812	4.13	82	5	ND	4	22	2	2	2	44	.29	.059	9	21	.66	103	.02	9	1.27	.04	.11	1
CK-A-10+50 P	1	38	17	94	.4	16	10	770	4.27	75	5	ND	4	21	3	3	2	46	.30	.061	9	22	.71	99	.03	3	1.32	.04	.12	1
CK-A-11+00 P	1	38	14	94	.1	16	10	780	4.33	66	5	ND	1	21	1	2	2	47	.31	.061	9	21	.72	95	.03	5	1.32	.04	.12	1
CK-A-11+50 P	1	38	20	95	.3	16	10	745	4.17	71	5	ND	4	22	2	2	2	46	.29	.060	9	21	.68	99	.02	4	1.32	.05	.13	1
CK-A-12+00 P	1	41	17	101	.2	16	10	766	4.14	77	5	ND	2	21	1	2	2	44	.29	.058	9	20	.67	97	.02	4	1.25	.03	.10	1
CK-A-12+50 P	1	40	19	109	.3	16	10	743	4.29	75	5	ND	4	21	2	3	2	46	.30	.061	9	22	.71	96	.02	4	1.30	.04	.11	1
CK-A-13+00 P	1	48	13	101	.1	17	10	745	4.32	68	5	ND	2	22	1	2	3	48	.30	.065	9	21	.71	99	.02	4	1.33	.04	.11	1
CK-A-13+50 P	1	40	17	100	.3	16	10	738	4.24	66	5	ND	2	22	1	2	2	47	.31	.062	9	23	.71	112	.02	4	1.32	.04	.12	1
CK-A-14+00 P	1	38	16	96	.2	15	10	807	4.07	75	5	ND	3	19	1	2	3	43	.29	.058	8	20	.69	88	.02	2	1.22	.03	.09	1
CK-A-14+50 P	1	34	11	95	.1	16	10	780	4.20	68	5	ND	2	24	1	2	2	45	.32	.060	8	21	.76	94	.02	2	1.38	.04	.12	1
CK-A-15+00 P	1	41	12	100	.1	17	11	829	4.25	78	5	ND	1	20	1	2	2	46	.31	.062	9	21	.68	97	.02	3	1.24	.03	.08	1
CK-A-15+50 P	1	45	12	104	.5	18	11	819	4.34	75	6	ND	4	25	1	2	2	49	.33	.066	10	22	.68	114	.02	3	1.37	.04	.12	3
CK-A-16+00 P	1	44	16	113	.3	18	11	763	4.48	80	5	ND	3	22	1	2	2	50	.30	.059	9	23	.70	110	.02	3	1.33	.04	.11	1
CK-A-16+50 P	2	38	14	112	.3	17	10	717	4.45	79	5	ND	2	21	1	2	2	50	.29	.056	8	23	.72	117	.02	4	1.36	.04	.12	2
CK-A-17+00 P	1	42	15	110	.1	19	11	881	4.39	98	5	ND	1	23	1	2	2	45	.31	.058	8	22	.66	107	.02	2	1.28	.03	.08	1
CK-A-17+50 P	1	58	16	135	.1	24	14	1431	4.62	141	5	ND	1	30	1	2	3	44	.44	.073	10	25	.62	145	.01	2	1.34	.02	.06	1
STD C	19	61	42	132	7.2	67	28	1036	3.95	36	18	7	39	50	18	16	21	58	.46	.086	38	59	.82	178	.09	34	1.68	.06	.13	11

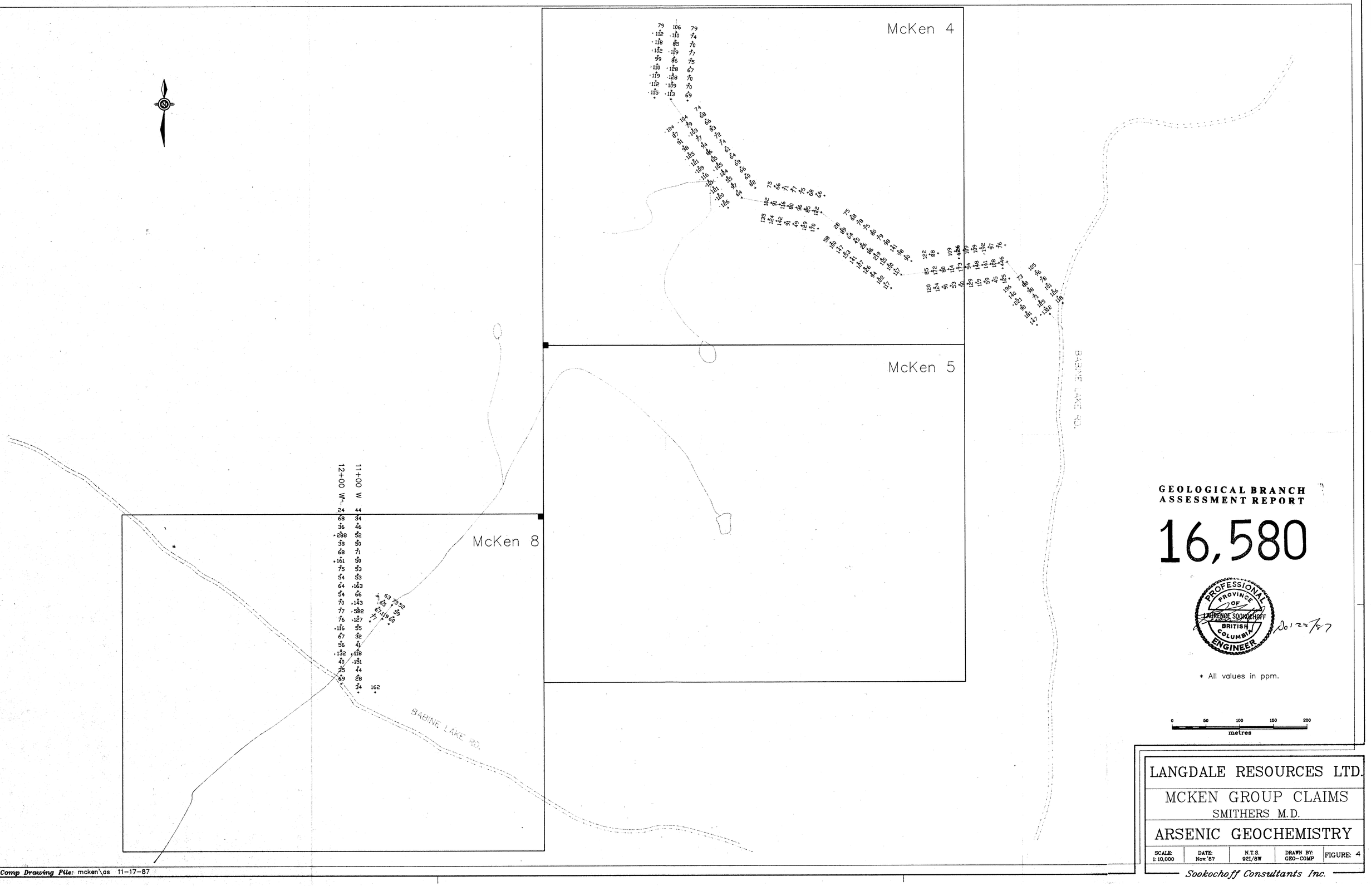
SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
CK-A-18+00 P	1	40	16	115	.2	19	11	799	4.67	98	5	ND	5	23	2	2	2	52	.31	.056	9	23	.73	109	.04	4	1.40	.04	.12	3
CK-A-18+50 P	1	46	13	120	.1	21	11	935	4.45	90	5	ND	3	21	1	2	2	47	.30	.057	9	24	.75	101	.03	5	1.40	.04	.10	1
CK-A-19+00 P	2	58	17	139	.6	24	12	934	4.57	122	5	ND	4	36	1	2	2	48	.53	.072	10	24	.63	146	.02	7	1.40	.02	.08	1
CK-A-19+50 P	2	44	15	120	.2	20	11	771	4.97	88	5	ND	3	23	1	2	2	59	.31	.055	8	24	.72	110	.04	5	1.36	.04	.11	1
CK-A-20+50 P	1	38	17	120	.3	19	11	875	4.49	109	5	ND	4	23	1	3	2	45	.29	.051	8	22	.68	104	.03	8	1.35	.04	.11	1
CK-A-21+00 P	2	39	12	116	.2	20	11	784	5.35	124	5	ND	3	23	1	2	2	65	.32	.056	8	25	.68	143	.05	2	1.27	.03	.09	1
CK-A-21+00 #2P	2	97	18	174	.6	29	12	454	4.26	113	5	ND	2	48	1	2	2	48	.64	.083	10	28	.71	231	.01	2	2.13	.03	.15	1
CK-A-21+50 P	2	40	14	115	.3	18	11	942	4.42	109	5	ND	3	20	2	3	2	42	.29	.054	8	21	.64	94	.03	4	1.20	.02	.07	1
CK-A-22+00 P	1	40	12	122	.1	18	11	896	4.62	109	5	ND	2	23	1	2	2	46	.28	.053	8	23	.68	106	.03	2	1.36	.04	.10	1
CK-A-22+50 P	2	57	22	150	.4	22	13	1380	5.08	192	5	ND	3	32	1	2	2	45	.45	.071	9	25	.62	146	.02	2	1.32	.02	.06	2
CK-A-23+00 P	2	32	12	101	.4	15	10	981	4.33	97	5	ND	3	18	1	2	2	42	.26	.052	7	20	.66	80	.03	3	1.19	.03	.09	2
CK-A-23+50 P	1	33	13	110	.2	17	10	939	4.66	76	5	ND	3	19	2	2	2	45	.28	.054	8	21	.72	83	.03	7	1.30	.04	.09	1
CK-A-24+00 P	2	37	15	117	.4	19	11	975	4.70	105	6	ND	4	22	1	2	2	45	.28	.052	8	22	.68	100	.02	5	1.37	.04	.11	1
CK-A-24+50 P	3	34	14	117	.1	19	11	835	4.74	96	5	ND	2	20	1	2	4	50	.28	.050	7	23	.70	101	.03	2	1.30	.03	.08	2
CK-A-25+00 P	1	33	13	112	.4	19	11	939	4.83	78	5	ND	4	21	3	2	2	51	.30	.052	8	24	.79	94	.03	3	1.43	.04	.10	1
CK-A-25+50 P	1	31	18	110	.1	18	11	1045	4.49	101	5	ND	2	18	1	2	5	44	.28	.052	7	22	.71	86	.03	2	1.24	.03	.08	1
CK-A-26+00 P	1	35	10	127	.1	19	11	1021	4.62	126	5	ND	1	23	1	2	2	45	.28	.051	7	22	.67	96	.02	2	1.36	.05	.11	1
CK-A-26+50 P	1	35	12	123	.1	19	12	1032	4.61	118	5	ND	2	22	1	2	2	44	.28	.050	7	22	.67	95	.02	3	1.32	.04	.09	1
CK-A-26+50W P	3	80	25	107	.1	9	13	1360	5.95	1312	5	ND	2	78	1	13	2	22	1.04	.077	14	9	.32	123	.01	2	1.05	.04	.15	1
CK-A-26+00W P	2	39	17	148	.3	20	12	1082	4.66	125	5	ND	1	27	1	2	2	43	.38	.064	8	21	.63	105	.01	2	1.35	.03	.08	1
CK-A-25+50W P	1	29	19	141	.4	15	11	1116	3.94	71	5	ND	2	21	1	2	2	40	.30	.067	9	18	.52	96	.01	2	1.29	.03	.11	1
CK-A-25+00W P	1	48	16	123	.9	22	11	932	4.42	98	5	ND	4	27	1	2	2	46	.43	.061	10	22	.66	121	.03	4	1.46	.04	.12	1
CK-A-24+50W P	1	37	14	113	.5	16	11	929	4.51	88	5	ND	4	18	1	4	2	44	.25	.053	9	21	.66	74	.02	2	1.32	.03	.09	1
CK-A-24+00W P	1	36	10	108	.1	15	11	988	4.45	73	5	ND	2	19	1	2	2	43	.31	.056	7	21	.66	88	.02	2	1.26	.03	.08	1
CK-A-23+50W P	5	87	17	136	.5	14	12	1168	4.79	446	5	ND	3	64	1	10	2	33	.43	.069	12	17	.54	186	.02	7	1.54	.04	.15	2
CK-A-23+00W P	2	40	11	126	.1	17	11	1091	4.39	108	5	ND	1	25	1	2	3	42	.37	.060	8	20	.64	103	.01	4	1.26	.03	.10	1
CK-A-22+50W P	3	43	15	142	.1	19	14	1010	4.83	141	5	ND	2	34	1	2	2	47	.40	.073	10	25	.58	119	.01	2	1.65	.04	.11	1
CK-A-22+00W P	2	53	11	123	.3	19	11	1022	4.58	148	5	ND	2	32	1	2	2	43	.32	.058	9	22	.64	154	.01	3	1.33	.04	.09	1
CK-A-21+50W P	1	88	19	107	.4	22	10	477	3.94	94	5	ND	7	39	2	2	2	50	.40	.031	15	29	.58	137	.06	3	1.49	.02	.07	1
CK-A-21+00W P	2	56	18	146	.5	21	13	1279	4.72	173	5	ND	3	46	2	2	2	44	.47	.067	8	25	.59	204	.01	2	1.21	.01	.05	2
CK-A-20+50W P	3	42	14	113	.3	18	11	1001	4.44	114	5	ND	3	17	1	2	2	43	.22	.056	9	21	.61	95	.01	2	1.28	.03	.09	2
CK-A-20+00W P	2	33	14	95	.3	20	10	732	4.07	80	5	ND	2	11	1	2	2	44	.16	.053	8	22	.67	63	.01	2	1.34	.02	.07	1
CK-A-19+50W P	1	57	35	211	.6	18	27	1817	5.29	172	5	ND	2	70	1	2	2	47	1.56	.090	12	32	.80	170	.01	2	1.60	.02	.19	1
CK-A-19+00W P	2	44	15	109	.4	20	11	830	4.25	85	7	ND	4	20	2	2	4	46	.29	.057	9	22	.68	100	.02	3	1.28	.03	.09	1
CK-A-18+50W P	2	56	17	135	.1	18	11	919	4.71	117	5	ND	2	19	1	2	2	52	.22	.066	10	25	.64	122	.01	3	1.75	.03	.10	1
CK-A-18+00W P	2	45	14	123	.1	20	12	1018	4.86	100	5	ND	2	21	1	2	2	50	.30	.056	9	25	.75	116	.02	2	1.48	.03	.10	1
STD C	19	61	44	132	7.0	69	28	1045	3.95	36	17	7	39	50	18	16	23	59	.46	.086	37	60	.82	180	.09	32	1.68	.06	.12	12

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
CK-A-17+50W	1	45	13	119	.3	18	12	1039	4.47	115	8	ND	4	28	2	2	2	46	.40	.061	9	24	.62	118	.03	3	1.36	.03	.11	1
CK-A-17+00W	1	72	17	157	.5	16	14	1222	4.24	219	6	ND	3	29	1	2	2	39	.80	.078	9	19	.48	116	.01	2	1.28	.03	.11	1
CK-A-16+50W	1	42	14	102	.3	18	10	759	4.26	86	6	ND	3	18	2	2	2	47	.29	.056	8	24	.71	97	.03	5	1.31	.03	.10	2
CK-A-16+00W	1	59	8	76	.1	17	12	683	4.10	26	5	ND	3	26	1	2	2	49	.36	.085	11	21	.59	147	.03	2	1.20	.03	.10	1
CK-A-15+50W	3	79	14	90	.1	22	15	1091	4.60	43	5	ND	3	25	1	2	2	54	.40	.100	14	25	.64	131	.04	2	1.25	.02	.07	1
CK-A-15+00W	2	64	15	98	.4	18	13	1323	4.43	64	6	ND	4	36	2	2	2	51	.52	.083	11	22	.62	167	.02	3	1.51	.03	.13	1
CK-A-14+50W	1	50	18	101	.2	18	11	946	4.26	89	5	ND	2	23	1	2	2	44	.33	.063	9	22	.64	109	.02	4	1.30	.03	.10	1
CK-A-14+00W	9	45	17	78	.3	13	11	632	4.56	28	5	ND	4	38	1	2	2	71	.58	.066	9	20	.57	225	.01	4	1.92	.03	.12	1
CK-A-13+50W	3	58	18	124	.3	21	12	770	4.66	122	5	ND	2	51	1	2	2	52	.65	.072	11	26	.59	159	.02	2	1.51	.02	.08	1
CK-A-13+00W	1	44	15	95	.1	17	11	835	4.28	85	5	ND	1	20	1	2	2	46	.30	.062	9	22	.68	101	.03	2	1.31	.04	.10	1
CK-A-12+50W	1	38	15	111	.1	19	11	648	4.48	96	5	ND	1	29	1	2	2	49	.45	.067	8	25	.62	112	.02	2	1.30	.03	.08	1
CK-A-12+00W	2	44	11	98	.2	18	11	799	4.42	80	5	ND	2	20	1	2	2	48	.30	.062	9	23	.69	102	.03	3	1.31	.03	.10	1
CK-A-11+50W	4	37	21	98	.3	17	8	484	4.39	116	5	ND	4	9	3	3	2	50	.09	.045	8	23	.50	63	.01	5	1.37	.01	.06	1
CK-A-11+00W	1	39	16	105	.1	18	11	879	4.46	91	5	ND	2	20	1	2	2	48	.32	.059	8	23	.69	100	.03	5	1.35	.04	.11	1
CK-A-10+50W	2	39	10	103	.4	16	12	983	4.48	102	7	ND	3	20	2	3	2	51	.24	.064	9	22	.57	136	.02	5	1.40	.03	.10	1
CK-A-10+00W	1	74	14	92	.2	22	12	855	4.58	64	5	ND	3	22	1	2	2	57	.26	.072	13	26	.66	160	.03	2	1.80	.03	.12	1
CK-A-9+50W	1	48	9	105	.3	19	11	880	4.55	97	5	ND	2	22	1	2	2	49	.32	.067	10	23	.67	121	.02	2	1.35	.03	.10	1
CK-A-9+00W	1	64	24	120	.7	20	13	1150	4.54	55	8	ND	5	22	2	2	2	50	.29	.088	13	24	.67	156	.01	3	1.63	.02	.10	1
CK-A-8+50W	1	48	17	106	.2	19	13	899	4.64	124	5	ND	3	25	1	2	2	50	.36	.070	10	25	.62	116	.02	5	1.37	.02	.06	1
CK-A-8+00W	2	44	19	134	.4	20	12	726	4.57	105	5	ND	3	34	1	2	2	53	.53	.082	10	26	.62	142	.02	3	1.34	.02	.07	2
CK-A-7+50W	2	34	14	83	.2	15	9	711	4.06	65	5	ND	3	14	1	2	2	55	.15	.060	8	21	.48	82	.01	2	1.42	.03	.09	1
CK-A-7+00W	2	46	14	96	.2	17	11	793	4.20	86	5	ND	2	20	1	2	2	48	.29	.065	10	22	.58	117	.02	5	1.29	.03	.10	1
CK-A-6+50W	1	48	23	114	.3	21	13	1040	4.51	94	5	ND	4	23	1	2	2	48	.33	.067	11	24	.67	118	.02	3	1.46	.03	.12	1
CK-A-6+00W	1	59	10	89	.2	30	12	489	4.28	77	5	ND	3	11	1	2	2	48	.14	.061	10	30	.63	80	.01	4	1.86	.01	.04	1
CK-A-5+50W	2	52	15	115	.5	22	13	924	4.79	103	5	ND	3	24	1	2	2	55	.38	.075	11	25	.63	130	.02	4	1.29	.01	.06	1
CK-A-5+00W	2	46	15	102	.1	19	11	850	4.38	79	5	ND	2	24	1	2	2	48	.36	.070	10	23	.68	114	.02	6	1.31	.03	.10	1
CK-A-4+50W	1	61	27	129	.5	23	14	1110	4.80	104	5	ND	3	25	1	3	2	52	.42	.081	11	25	.68	132	.02	3	1.30	.01	.06	1
CK-A-4+00W	2	50	19	139	.1	21	13	1088	4.63	113	5	ND	1	39	1	2	2	46	.58	.071	10	24	.66	158	.01	2	1.49	.03	.11	1
CK-A-3+50W	2	45	18	114	.1	20	11	854	4.57	109	5	ND	1	27	1	2	2	55	.43	.078	9	26	.61	112	.02	2	1.22	.01	.05	2
CK-A-3+00W	1	60	19	129	.3	23	13	1410	4.75	128	5	ND	2	39	1	2	2	48	.60	.086	10	24	.63	161	.01	3	1.40	.02	.07	1
CK-A-2+50W	3	59	15	127	.1	23	15	1400	4.94	128	5	ND	1	38	1	2	2	52	.59	.089	10	26	.64	167	.01	4	1.43	.02	.07	1
CK-A-2+00W	1	40	11	96	.1	18	11	817	4.52	86	5	ND	2	22	1	2	2	52	.32	.063	9	23	.73	102	.03	4	1.38	.04	.11	1
CK-A-1+50W	2	62	16	129	.1	24	15	1369	4.77	119	5	ND	1	36	1	2	2	49	.51	.077	12	26	.64	180	.01	2	1.55	.02	.06	1
CK-A-1+00W	1	42	14	104	.1	20	11	849	4.43	85	5	ND	2	21	1	2	3	47	.30	.063	10	22	.69	109	.02	2	1.41	.03	.10	1
CK-A-0+50W	2	54	20	120	.3	22	13	1168	4.67	110	5	ND	3	42	1	2	2	51	.67	.094	10	25	.62	154	.01	6	1.36	.02	.07	1
CK-A-0+00W	2	59	15	112	.1	22	13	1004	4.78	106	5	ND	2	26	1	2	2	53	.42	.080	11	25	.66	129	.02	2	1.29	.01	.05	1
STD C	18	61	42	132	7.4	69	28	1055	4.00	39	18	8	39	50	19	17	21	60	.47	.089	38	60	.84	180	.09	33	1.71	.06	.13	13

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
CK-A-0+00E	1	63	17	98	.2	20	12	1012	4.39	79	5	ND	3	21	1	2	2	48	.27	.063	14	26	.57	136	.03	2	1.40	.01	.05	1
CK-A-0+50E	2	52	20	118	.1	20	13	1178	4.54	112	5	ND	2	34	1	2	2	48	.51	.079	10	27	.60	135	.02	8	1.31	.01	.05	1
CK-A-1+00E	2	55	14	129	.1	21	13	1199	4.77	118	5	ND	2	36	1	2	2	50	.56	.082	10	28	.63	158	.02	5	1.42	.01	.06	1
CK-A-1+50E	1	62	17	121	.1	22	13	1124	4.96	102	5	ND	1	21	1	2	2	50	.34	.074	9	28	.71	121	.02	2	1.30	.02	.06	3
CK-A-2+00E	1	53	17	123	.1	20	12	929	4.88	99	5	ND	2	29	1	2	2	58	.47	.084	10	28	.63	129	.03	5	1.25	.01	.06	1
CK-A-2+50E	1	57	20	131	.1	22	13	1094	5.03	110	5	ND	1	29	1	2	2	57	.46	.081	10	29	.69	171	.02	2	1.32	.01	.06	15
CK-A-3+00E	2	59	20	131	.1	21	14	1801	4.66	119	5	ND	1	52	1	2	2	50	.79	.083	10	26	.60	190	.02	7	1.34	.01	.07	1
CK-A-3+50E	1	58	21	134	.3	22	13	1186	4.68	112	5	ND	1	42	1	2	2	50	.66	.080	11	29	.61	172	.02	2	1.43	.02	.06	1
CK-A-4+00E	1	51	11	136	.1	21	12	1266	4.69	115	5	ND	2	33	1	2	2	53	.54	.082	10	29	.64	132	.02	5	1.30	.01	.06	1
CK-A-4+50E	1	41	18	133	.4	20	12	743	4.65	104	5	ND	2	31	1	2	2	51	.50	.076	9	29	.65	129	.02	9	1.34	.01	.06	4
CK-A-5+00E	2	39	14	107	.4	16	10	453	5.03	87	5	ND	4	12	1	2	2	59	.19	.067	9	26	.57	73	.02	11	1.58	.01	.07	1
CK-A-5+50E	1	46	15	130	.1	20	12	549	4.63	91	5	ND	1	27	1	2	2	58	.44	.084	10	31	.63	114	.02	2	1.31	.01	.05	1
CK-A-6+00E	1	58	16	120	.1	21	13	1084	4.89	98	5	ND	2	27	1	2	2	58	.44	.086	11	28	.65	130	.03	2	1.24	.01	.05	1
CK-A-6+50E	1	48	17	118	.1	20	13	1032	5.23	125	5	ND	2	20	1	2	2	66	.29	.077	11	32	.60	124	.02	6	1.35	.01	.05	3
CK-A-7+00E	1	56	14	122	.1	20	13	1171	4.61	121	5	ND	1	36	1	2	3	46	.53	.072	10	26	.61	132	.02	2	1.25	.01	.05	1
CK-A-7+50E	1	58	13	124	.3	23	13	1079	4.88	109	7	ND	3	22	1	2	2	50	.26	.064	11	37	.66	144	.02	6	1.52	.01	.06	1
CK-A-8+00E	1	62	12	132	.1	23	14	1281	5.19	116	5	ND	1	24	1	2	2	50	.37	.071	11	29	.67	124	.01	2	1.55	.02	.06	1
CK-A-8+50E	2	43	11	114	.3	16	10	618	4.52	101	5	ND	2	15	1	2	2	52	.18	.046	9	24	.52	121	.01	6	1.60	.01	.05	1
CK-A-9+00E	1	50	13	114	.2	20	13	1016	4.82	121	5	ND	1	29	1	2	2	54	.43	.069	10	28	.59	139	.02	2	1.36	.01	.05	1
CK-A-9+50E	1	52	14	112	.1	19	12	1265	4.63	120	5	ND	2	26	1	2	2	48	.40	.082	10	27	.60	118	.02	3	1.27	.01	.06	1
CK-A-10+00E	1	51	15	128	.2	20	13	1147	4.67	126	5	ND	2	29	1	2	2	49	.41	.068	10	28	.60	157	.01	6	1.38	.01	.06	1
CK-A-10+50E	1	50	15	126	.4	21	13	1289	4.85	135	5	ND	1	27	1	2	2	46	.45	.070	11	27	.71	120	.02	2	1.36	.02	.07	1
CK-A-11+00E	1	51	15	119	.5	20	12	1042	4.67	124	5	ND	1	26	1	2	2	48	.38	.072	10	27	.58	119	.02	2	1.26	.01	.06	2
CK-A-11+50E	2	57	13	116	.2	22	14	1364	4.99	142	5	ND	1	22	1	2	2	51	.31	.067	10	27	.61	138	.02	2	1.41	.01	.06	1
CK-A-12+00E	1	60	13	106	.4	20	13	1046	4.85	91	5	ND	2	22	1	2	2	57	.36	.075	10	28	.65	119	.03	2	1.23	.01	.06	1
CK-A-12+50E	3	39	77	215	.5	14	10	801	4.93	49	5	ND	4	15	1	2	2	53	.12	.078	11	22	.44	220	.01	3	2.29	.01	.08	2
CK-A-13+00E	1	42	13	130	.3	18	12	1697	4.37	129	5	ND	1	41	1	2	2	44	.65	.077	9	26	.55	174	.01	3	1.25	.01	.06	1
CK-A-13+50E	1	45	14	134	.1	18	13	1196	4.92	170	5	ND	2	22	1	2	2	45	.32	.065	8	25	.61	124	.01	2	1.30	.01	.06	1
CK-A-14+00E	1	61	19	121	.1	14	12	1218	4.59	58	5	ND	5	19	1	2	2	44	.30	.111	16	21	.58	209	.01	2	1.92	.01	.09	1
CK-A-14+50E	1	39	17	122	.1	16	11	844	4.47	100	5	ND	1	12	1	2	2	49	.16	.068	8	26	.48	135	.01	2	1.35	.01	.06	1
CK-A-15+00E	1	55	18	133	.3	22	14	1369	5.04	147	5	ND	2	32	1	2	2	51	.45	.079	10	29	.63	155	.01	4	1.39	.01	.07	1
CK-A-15+50E	2	53	12	159	.1	22	14	1462	5.14	153	5	ND	1	26	1	3	2	54	.43	.089	10	30	.62	166	.01	3	1.37	.02	.08	1
CK-A-16+00E	1	54	17	146	.5	21	12	1413	4.59	141	5	ND	1	38	1	2	2	43	.61	.083	9	27	.60	156	.01	4	1.35	.01	.07	1
CK-A-16+50E	2	74	31	153	.6	25	15	1107	4.62	127	5	ND	3	21	1	3	2	47	.31	.083	13	26	.62	136	.01	17	1.60	.02	.12	1
CK-A-17+00E	2	46	17	127	.2	20	14	1191	4.83	126	5	ND	2	17	1	2	2	53	.26	.084	9	29	.59	110	.01	2	1.40	.01	.07	2
CK-A-17+50E	1	89	17	145	.7	26	16	1460	4.97	94	5	ND	4	31	1	2	2	55	.54	.080	15	30	.71	198	.02	2	1.79	.02	.13	1
STD C	17	62	40	132	7.1	68	28	1051	3.99	36	15	7	38	50	17	17	19	59	.47	.087	37	66	.84	179	.09	33	1.70	.06	.13	13

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
CK-A-18+00E	1	44	21	170	.1	20	13	1070	4.90	122	5	ND	1	19	1	2	2	44	.33	.070	9	28	.56	151	.01	2	1.70	.01	.07	1
CK-A-18+50E	1	50	14	140	.2	20	11	1100	4.49	117	5	ND	1	35	1	2	2	42	.57	.091	8	25	.58	134	.02	5	1.23	.01	.05	1
CK-A-19+00E	1	61	26	156	.3	25	15	1218	4.65	120	5	ND	3	11	3	5	2	44	.20	.061	8	26	.65	92	.01	3	1.52	.01	.08	2
CK-A-19+50E	1	51	16	145	.3	23	13	1500	4.42	124	5	ND	1	29	1	2	2	40	.49	.070	8	24	.58	146	.02	2	1.21	.01	.06	1
CK-A-20+00E	1	51	23	135	.3	27	13	1309	3.91	91	5	ND	2	29	2	3	2	37	.64	.072	9	25	.57	148	.02	3	1.20	.02	.07	1
CK-A-20+50E	1	50	20	124	.1	27	13	1179	3.95	53	5	ND	1	20	1	2	2	40	.36	.066	9	25	.56	97	.03	2	1.17	.02	.06	1
CK-A-21+00E	2	55	19	127	.6	27	13	1380	3.98	50	5	ND	1	31	2	2	2	43	.51	.074	10	27	.55	144	.02	7	1.46	.02	.08	1
CK-A-21+50E	1	51	23	172	.5	20	12	1239	4.49	129	5	ND	1	40	1	3	2	39	.67	.101	8	24	.58	140	.01	2	1.21	.01	.06	1
CK-A-22+00E	1	43	22	163	.1	19	12	1310	4.11	119	5	ND	1	37	1	3	2	34	.67	.105	7	24	.52	119	.01	2	1.12	.01	.06	1
CK-A-22+50E	1	48	21	126	.2	23	12	1061	4.12	59	5	ND	2	26	1	2	2	45	.34	.066	10	24	.49	108	.02	2	1.31	.01	.05	1
CK-A-23+00E	1	38	8	175	.3	12	6	398	1.79	45	5	ND	1	127	1	2	2	14	2.56	.060	4	12	.27	89	.01	6	.51	.01	.05	1
CK-A-23+50E	1	40	16	130	.2	19	11	968	4.49	125	5	ND	1	21	1	2	2	42	.34	.069	8	25	.57	96	.02	2	1.16	.01	.04	1
CK-A-24+00E	1	54	20	164	.1	22	13	1571	4.73	196	5	ND	1	35	1	2	2	36	.59	.082	8	26	.58	145	.01	2	1.26	.01	.05	1
CK-A-24+50E	1	42	19	131	.1	18	13	1122	4.90	140	5	ND	1	16	1	2	2	41	.19	.061	9	25	.54	102	.01	2	1.39	.01	.04	1
CK-A-25+00E	1	55	18	148	.4	20	14	1336	5.11	221	5	ND	1	33	1	4	2	41	.55	.074	8	24	.58	195	.01	4	1.40	.01	.05	1
CK-A-25+50E	1	81	21	156	.3	25	15	535	4.15	90	5	ND	1	31	1	2	2	43	.56	.046	9	28	.65	246	.01	2	1.94	.02	.08	1
CK-A-26+00E	1	59	17	160	.1	21	11	1482	4.51	181	5	ND	1	54	1	2	2	34	.86	.092	13	24	.50	107	.01	2	1.52	.01	.04	1
CK-A-26+50E	1	39	17	132	.2	19	12	1164	4.89	147	5	ND	3	21	2	2	2	43	.34	.059	7	25	.62	99	.01	7	1.15	.01	.04	1
CK-B-0+00	3	55	17	132	.2	17	11	746	4.08	63	5	ND	1	36	1	2	2	51	.57	.082	10	29	.61	173	.02	5	1.38	.01	.09	2
CK-B-0+50	5	42	21	120	.3	19	12	1018	4.25	65	5	ND	3	25	2	2	2	49	.40	.071	9	31	.78	125	.03	7	1.31	.02	.07	1
CK-B-1+00	6	41	15	119	.1	18	12	1013	4.38	67	5	ND	1	24	1	2	2	50	.37	.068	9	31	.78	118	.03	2	1.29	.02	.07	1
CK-B-1+00W	6	75	24	149	.6	22	14	1294	4.71	119	5	ND	2	43	1	3	2	47	.65	.079	12	31	.68	237	.01	3	1.58	.01	.08	1
CK-B-1+50W	5	63	25	135	.5	19	12	930	4.16	77	5	ND	2	33	2	4	2	43	.53	.076	10	29	.64	189	.01	9	1.46	.01	.09	2
CK-B-0+00W	4	63	26	120	.4	17	12	767	4.59	73	5	ND	3	25	1	2	2	56	.39	.088	9	28	.60	145	.03	2	1.67	.01	.08	1
CK-B-0+00E	4	53	15	103	.3	18	12	961	4.36	52	5	ND	4	30	2	2	2	51	.47	.063	11	33	.72	142	.02	6	1.40	.02	.11	3
CK-B-0+50E	5	38	20	109	.1	17	13	1176	4.19	59	5	ND	3	19	1	2	2	47	.27	.050	9	31	.71	155	.02	4	1.36	.02	.08	1
CK-B-1+00E	5	36	21	108	.4	15	12	477	4.35	60	5	ND	3	14	1	2	2	55	.21	.045	8	28	.53	117	.01	5	1.49	.01	.06	2
12+00W 0+00S	8	31	13	191	.2	9	10	2310	2.90	24	5	ND	1	130	1	2	2	36	1.21	.196	5	15	.27	391	.01	2	1.04	.01	.10	1
12+00W 0+50S	18	42	16	95	.1	13	9	514	3.78	68	5	ND	1	21	1	2	2	41	.16	.055	8	21	.37	98	.01	2	1.44	.01	.06	1
12+00W 1+00S	5	46	17	107	.4	13	10	911	3.96	36	5	ND	1	49	1	2	2	49	.43	.077	10	21	.35	203	.01	4	1.73	.01	.09	1
12+00W 1+50S	70	162	19	190	.9	30	13	2578	5.90	288	5	ND	2	109	1	3	2	48	1.01	.120	17	31	.45	449	.01	2	2.96	.01	.17	1
12+00W 2+00S	7	25	15	195	.2	13	13	1199	4.22	38	5	ND	2	35	2	2	2	56	.37	.062	7	19	.28	316	.01	4	1.44	.01	.13	1
12+00W 2+50S	24	73	16	111	.1	16	14	965	4.16	68	5	ND	1	48	1	2	2	51	.47	.032	13	23	.38	195	.01	2	2.01	.01	.07	1
12+00W 3+00S	21	50	27	169	.2	13	10	521	3.60	161	5	ND	1	68	1	2	2	45	.84	.058	8	20	.34	171	.01	2	1.28	.01	.10	1
12+00W 3+50S	19	84	23	136	.4	16	11	936	3.53	75	5	ND	1	73	1	2	2	37	.99	.074	10	25	.47	226	.01	2	1.36	.01	.09	1
12+00W 4+00S	22	130	18	160	.7	28	15	1131	4.98	54	5	ND	2	70	1	2	2	50	.80	.112	12	31	.49	347	.01	2	2.39	.01	.15	1
STD C	19	61	39	132	7.5	70	27	1040	4.05	36	19	8	37	50	18	16	20	57	.48	.086	36	58	.85	176	.09	39	1.72	.06	.15	13

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
12+00W 4+50S	18	103	21	131	.8	25	14	934	5.24	64	5	ND	3	69	1	2	2	62	.65	.056	14	36	.61	411	.01	2	3.04	.02	.17	1
12+00W 5+00S	23	147	20	179	1.0	31	14	1086	5.43	54	5	ND	1	127	1	2	2	57	1.49	.106	17	36	.61	426	.01	4	2.88	.03	.19	1
12+00W 5+50S	9	71	20	127	.7	23	15	1080	4.78	70	5	ND	3	50	1	3	2	63	.70	.077	14	32	.70	199	.03	10	2.09	.02	.13	1
12+00W 6+00S	11	135	18	165	.6	29	15	1373	5.27	77	5	ND	1	92	1	2	2	59	1.41	.093	24	38	.71	443	.01	2	3.31	.02	.23	1
12+00W 6+50S	6	51	15	116	.4	20	14	1275	4.37	76	5	ND	1	46	1	2	3	66	.60	.047	10	30	.58	210	.02	2	2.17	.02	.15	1
12+00W 7+00S	8	265	15	129	2.5	41	14	912	5.93	116	5	ND	3	120	1	2	3	61	1.78	.074	41	43	.81	599	.01	2	4.85	.03	.25	1
12+00W 7+50S	20	32	17	191	.3	9	14	881	4.19	67	5	ND	1	59	1	2	2	70	.72	.057	9	22	.25	218	.01	6	1.86	.02	.08	1
12+00W 8+00S	3	22	12	202	.1	12	9	622	4.67	56	5	ND	1	16	1	2	2	76	.18	.104	7	26	.39	167	.02	2	1.89	.01	.07	1
12+00W 8+50S	4	62	20	101	.1	21	13	456	5.45	132	5	ND	1	20	1	2	2	83	.29	.076	7	35	.64	116	.03	2	2.07	.02	.08	1
12+00W 9+00S	4	20	13	108	.6	8	6	278	4.26	40	5	ND	2	11	1	2	3	70	.09	.085	7	22	.27	118	.01	4	1.99	.01	.05	2
12+00W 9+50S	6	28	12	285	.4	10	12	1940	4.05	35	5	ND	1	24	1	2	2	59	.30	.100	7	21	.31	275	.02	2	1.65	.01	.08	2
12+00W 10+00S	9	63	27	128	.2	21	15	959	4.81	69	5	ND	3	26	1	2	2	66	.39	.072	9	32	.66	144	.02	2	1.61	.01	.07	5
11+00W 0+00S	25	36	18	108	.4	15	10	615	5.24	44	5	ND	2	38	2	3	2	87	.26	.043	7	24	.38	357	.03	5	2.17	.01	.08	1
11+00W 0+50S	10	27	15	120	.4	11	7	320	4.17	34	5	ND	1	22	1	2	2	69	.23	.064	8	21	.32	217	.02	4	1.74	.01	.09	1
11+00W 1+00S	4	35	17	116	.1	14	10	965	4.20	46	5	ND	1	57	1	2	2	57	.51	.125	7	21	.33	281	.01	3	1.57	.01	.09	1
11+00W 1+50S	26	69	21	139	.6	20	13	1620	4.70	52	5	ND	2	51	1	5	2	57	.48	.127	12	30	.46	355	.01	2	2.49	.01	.18	1
11+00W 2+00S	26	142	12	166	.9	32	13	1677	4.78	50	5	ND	2	99	1	3	2	51	.93	.152	21	34	.51	446	.01	2	2.91	.02	.19	1
11+00W 2+50S	22	182	17	150	.8	27	14	976	5.02	71	7	ND	3	79	3	4	2	58	.84	.072	22	34	.54	480	.01	5	2.92	.02	.15	1
11+00W 3+00S	26	138	18	150	1.5	36	12	1150	5.31	50	5	ND	1	124	1	4	2	64	1.60	.122	22	51	.57	451	.02	5	3.10	.02	.16	1
11+00W 3+50S	27	121	16	172	.5	20	13	1386	4.68	53	5	ND	1	101	1	2	2	52	1.19	.104	13	28	.46	300	.01	16	2.32	.02	.14	1
11+00W 4+00S	32	249	12	132	1.4	37	14	1399	5.06	53	5	ND	1	147	1	2	2	55	1.82	.109	22	36	.51	406	.01	3	2.69	.02	.16	1
11+00W 4+50S	15	148	17	141	1.5	28	13	1232	4.97	163	5	ND	2	128	1	2	2	57	1.79	.102	16	32	.53	384	.01	4	2.98	.01	.18	1
11+00W 5+00S	18	217	15	148	2.1	35	14	1196	5.55	66	5	ND	3	126	1	6	2	60	1.77	.073	27	39	.63	490	.01	7	3.45	.02	.20	1
11+00W 5+50S	14	62	23	102	.1	21	15	968	4.54	143	5	ND	2	39	1	5	2	61	.52	.078	13	31	.69	138	.04	2	1.68	.02	.09	1
11+00W 6+00S	16	154	23	153	1.3	26	15	1478	4.91	582	5	ND	3	116	1	5	2	57	1.66	.095	16	35	.61	296	.01	11	2.92	.02	.16	1
11+00W 6+50S	16	85	19	132	.7	20	15	2008	4.16	127	5	ND	1	76	1	3	2	57	1.03	.061	27	29	.47	286	.01	7	2.35	.02	.14	1
11+00W 7+00S	4	19	20	133	.5	9	6	343	3.65	55	5	ND	2	32	2	4	2	66	.38	.054	6	22	.30	115	.01	7	1.39	.01	.15	1
11+00W 7+50S	2	74	12	307	.3	19	10	1278	2.42	32	5	ND	1	129	1	2	2	35	3.20	.142	5	18	.43	248	.01	18	.87	.01	.12	1
11+00W 8+00S	4	49	11	81	.4	16	11	528	3.99	41	5	ND	3	27	1	4	2	55	.42	.063	9	27	.50	126	.01	5	1.36	.01	.10	1
11+00W 8+50S	7	40	14	130	.3	16	16	1089	5.18	118	5	ND	1	29	2	2	2	72	.37	.091	6	29	.40	238	.01	2	2.05	.01	.08	1
11+00W 9+00S	6	56	20	109	.6	21	13	413	5.75	151	5	ND	3	21	1	4	2	71	.26	.066	7	33	.63	124	.02	13	2.34	.01	.09	1
11+00W 9+50S	2	19	15	114	.2	10	8	520	3.59	44	5	ND	1	25	1	2	3	62	.30	.074	6	22	.27	148	.01	9	1.30	.01	.08	1
11+00W 10+00S	2	14	11	150	.1	7	8	672	3.31	28	5	ND	1	28	1	2	2	60	.32	.061	8	22	.26	192	.01	2	1.32	.01	.11	1
11+00W 10+50S	3	21	18	184	.3	10	9	801	4.22	34	5	ND	1	21	1	2	5	65	.26	.121	7	24	.36	162	.02	2	1.72	.01	.09	6
10+00W 10+50S	5	107	29	138	.2	27	20	1675	6.42	162	5	ND	3	35	1	2	2	82	.57	.116	17	39	.93	164	.07	2	1.79	.02	.09	1
STD C	17	61	41	132	7.0	68	28	1043	3.93	41	15	8	38	50	18	18	23	58	.46	.087	37	66	.83	177	.09	33	1.70	.06	.13	12



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,580

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF

Dec 22/87

* All values in ppm.

0 50 100 150 200
metres

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS
SMITHERS M.D.

ARSENIC GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE:
1:10,000	Nov.'87	92I/8W	GEO-COMP	4

Sookochoff Consultants Inc.

Geo-Comp Drawing File: mcken\as 11-17-87

McKen 4

McKen 5

McKen 8

12+00 W

11+00 W

BASELINE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,580

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAWRENCE SOOKOCHOFF
Nov 28 '87

* All values in ppm.

0 50 100 150 200
metres

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS

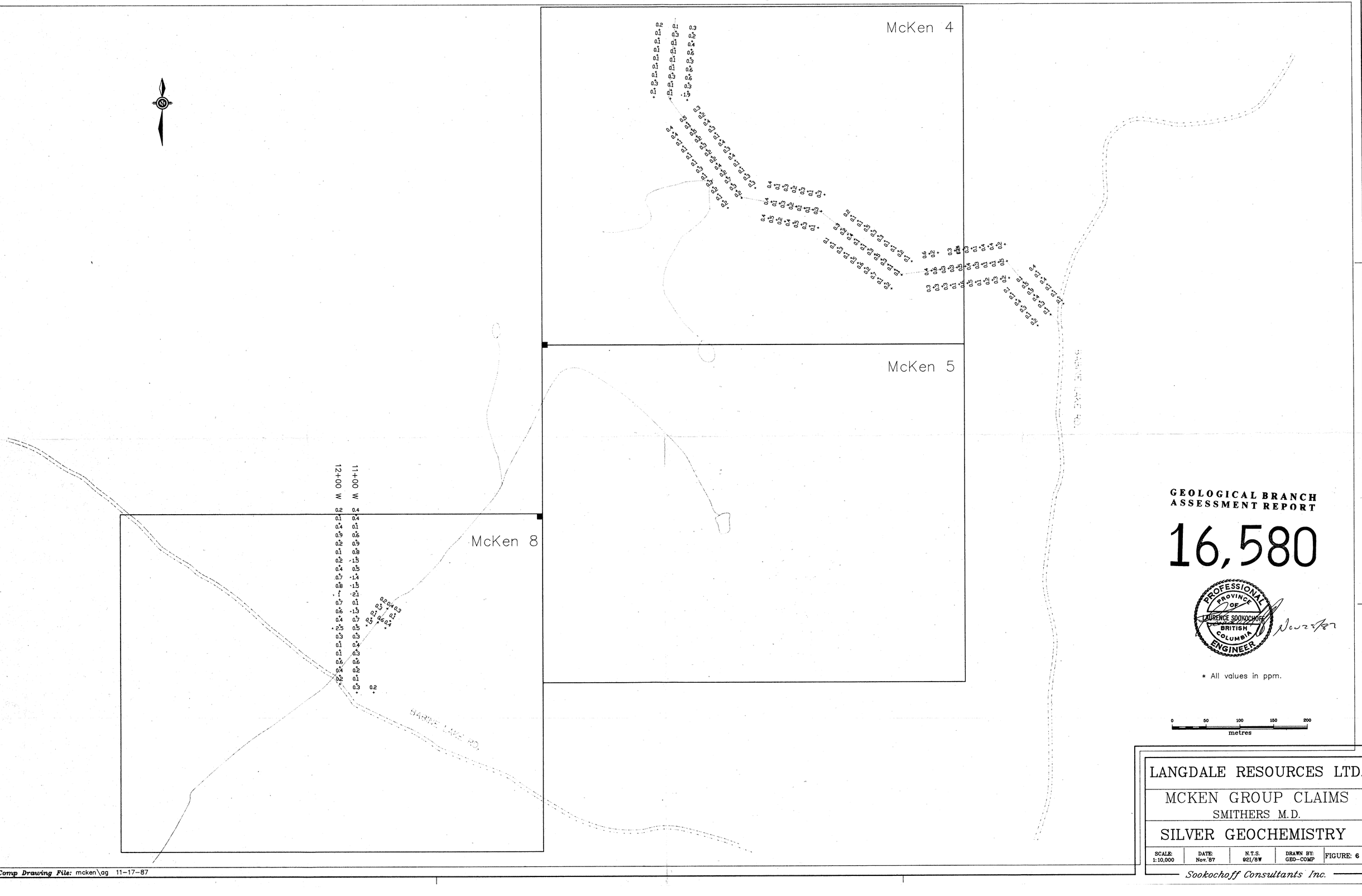
SMITHERS M.D.

ZINC GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE: 5
1:10,000	Nov.'87	93L/8W	GEO-COMP	

Sookochoff Consultants Inc.

Geo-Comp Drawing File: mcken\zn 11-17-87



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,580

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF
Nov 27/87

* All values in ppm.

0 50 100 150 200
metres

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS
SMITHERS M.D.

SILVER GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE: 6
1:10,000	Nov.'87	93L/8W	GEO-COMP	

Sookochoff Consultants Inc.

Geo-Comp Drawing File: mcken\ag 11-17-87

McKen 4

McKen 5

McKen 8

RAINY LAKE RD.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,580

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF

* All values in ppm.

0 50 100 150 200
metres

LANGDALE RESOURCES LTD.

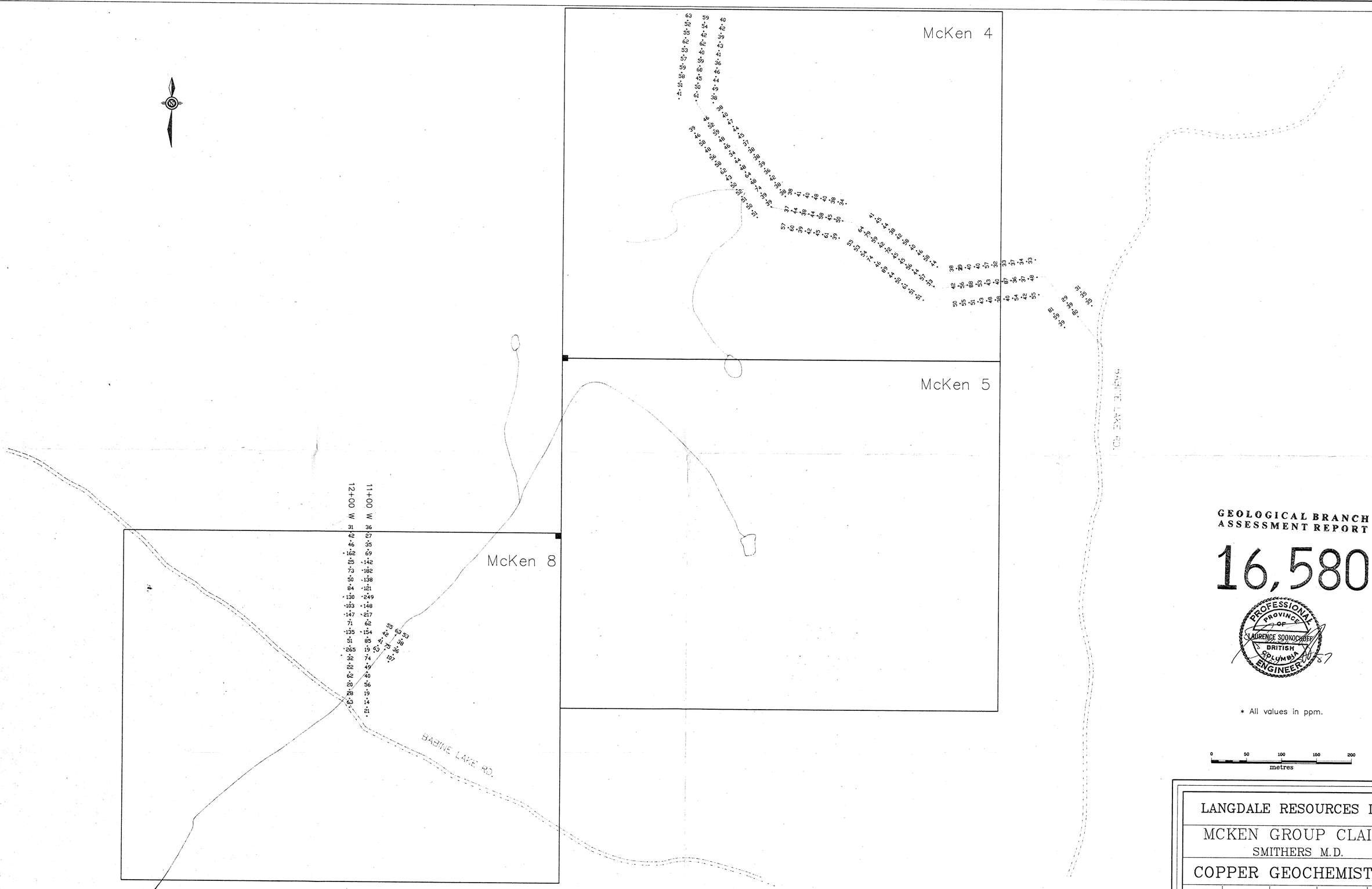
MCKEN GROUP CLAIMS
SMITHERS M.D.

LEAD GEOCHEMISTRY

SCALE: 1:10,000	DATE: Nov.'87	N.T.S. 92I/8W	DRAWN BY: GEO-COMP	FIGURE: 7

Sookochoff Consultants Inc.

Geo-Comp Drawing File: mcken\pb 11-16-87



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,580

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURENCE SOOKOCHOFF

* All values in ppm.

0 50 100 150 200
metres

LANGDALE RESOURCES LTD.

MCKEN GROUP CLAIMS
SMITHERS M.D.

COPPER GEOCHEMISTRY

SCALE: 1:10,000	DATE: Nov.'87	N.T.S. 92I/8W	DRAWN BY: GEO-COMP	FIGURE: 8

Sookochoff Consultants Inc.

Geo-Comp Drawing File: mcken\cu 11-16-87