GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

BEDROCK GEOLOGY

TIME SCALE				Ma	STRATIFIED ROCKS	CATACLASTIC ROCKS	PLUTONIC ROCKS
PHANEROZOIC	MESOZOIC	CRET	EARLY	140	FUNDY GROUP *MCCOY BROOK FORMATION (EJM): red wacke, sandstone*		
		JUR	EARLY	210	*NORTH MOUNTAIN FORMATION (TJNM): massive, amygdaloidal basalt*		
		TRIASSIC	LATE	247	*BLOMIDON FORMATION (LTB): red siltstone, shale, wacke* *WOLFVILLE FORMATION (LTW): red quartz arenite, siltstone, red polymictic conglomerate*		
	PALEOZOIC	PER		290			
		CARBONIFEROUS	LATE	340	PICTOU GROUP *undivided (LCP): grey, green, tan, red, feldspathic wacke, siltstone, conglomerate.* CUMBERLAND GROUP *(LCCd): upper fine facies: red wacke and siltstone* *(LCCc): upper coarse facies: red polymictic conglomerate* *(LCCb): coal bearing facies: grey wacke, coal* *(LCCa): lower coarse facies: red polymictic conglomerate* RIVERSDALE GROUP *PARRSBORO FORMATION (LCPB): red, tan, grey quartz and lithic wacke, siltstone, shale* *BOSS POINT FORMATION (LCBP): red, grey quartz and lithic wacke, siltstone, conglomerate*	*(FZ-Cu): tan to orange wacke and conglomerate in Cobequid Fault Zone*	
			EARLY	370	CANSO GROUP *MIDDLEBOROUGH FORMATION (LCMB) siltstone, shale, conglomerate* *WEST BAY FORMATION (CWB): red, green lithic and quartz wackes, red conglomerate* WINDSOR GROUP *undivided (ECW): grey, tan limestone, siltstone, black to grey limestone* *(ECWa): a subzone; gypsum, anhydrite limestone, dolostone, halite* HORTON GROUP *GREVILLE RIVER FORMATION (DCG): grey, tan quartz wacke and arenite, siltstone*	*(FZlms): grey white limestone massive to thin bedded* *(FZc): cataclastic rocks, phyllites*	*(Cg): red, pale orange tan grey hornblende ± biotite monzogranite to alkali feldspar granite.*
		DEVONIAN	LATE		*RAPID BROOK FORMATION (DCR): grey tan quartz and lithic wacke, granite clast conglomerate*		*(DCG): grey, tan, pale orange, hornblende ± biotite monzogranite to alkali feldspar granite* *(DCd): dark grey to pale tan hornblende ± pyroxene diorite*
			MIDDLE		FOUNTAIN LAKE GROUP *undivided (DCFL): undifferentiated mafic and felsic volcanic rocks* *(DCFLr): tan to orange rhyolite lava flows and ignimbrites, siltstone* *(DCFLb): green to red basalt, siltstone*		
			EARLY	415			
		SILURIAN	LATE		*WILSON BROOK FORMATION (Sw): grey, black siltstone, shale, minor wacke and tuff; quartz wacke;* *(Swr): tan, orange rhyolite and dacite volcanic rocks*		
			M				
			EARLY	436			
		ORD	L				
			E	500			
		CAMBRIAN	LATE				
			MID				
			EARLY	580			
PROTEROZOIC	HADRYNIAN			900	*JEFFERS FORMATION (HJ): green, metamorphosed, volcanic tuff, siltstone and agglomerate, phyllite*		*(PPg): orange-tan alkali feldspar granite to syenogranite (PPd): grey diorite* *(Hd): grey diorite to quartz diorite*

MINERAL OCCURRENCES

Cu - *Copper*
Pb - *Lead*
Au - *Gold*
Fe - *Iron*
Mn - *Manganese*
gyp - *Gypsum*
lms - *Limestone*
Ba - *Barite*
shal - *Shale*
clay - *Clay*
gem - *Gemstones*
rock - *Rip - Rap*
coal - *Coal*
gra - *Graphite*

SYMBOLS

Surficial geology boundary	▬
Bedrock geological boundary	▬
Fault	▬
Diabase dyke	- - -

ADDITIONAL SOURCES OF GEOLOGICAL INFORMATION

Donohoe, H.V., and Wallace. P.I., 1982: Geological Map of the Cobequid Highlands, Colchester, Cumberland and Pictou Counties, Nova Scotia. Nova Scotia Department of Mines and Energy, Map 82-6.

Keppie, J.D. (Compiler) 1979: Geological Map of Nova Scotia, Nova Scotia Department of Mines and Energy

Surficial Geology by R.R. Stea and P.W. Finck

Till Geochemistry and Pebble Lithology by R.R. Stea and P.W. Finck

LEGEND

SURFICIAL DEPOSITS

NONGLACIAL ENVIRONMENT

SG	*Sand, silt, and gravel (undifferentiated, see Map 1630A)*

GLACIAL ENVIRONMENT

SLs SL	*SHULIE LAKE TILL:* SL, *olive-brown stony, sandy till.* SLs *(sandy facies), olive-brown (5Y 5/6), sandy till, sand inclusions*
Es E	*EATONVILLE TILL:* E, *reddish brown, silty sand till.* Es *(sandy facies), reddish brown (10R 4/6), stony till*
J	*JOGGINS TILL: Dark yellowish brown (10YR 4/2), sandy silt till*

ROCK

D	*RESIDUUM: fragmented, mechanically and chemically weathered bedrock*
R	*SCOURED BEDROCK: glacially scoured bedrock*

Geology and Geochemistry by R.R. Stea and R.W. Finck

To accompany Paper 85-17 by R.R. Stea, P.W. Finck and D.M. Wightman

Cartography by the Nova Scotia Department of Mines and Energy

Base map supplied by the Maritime Resource Management Service

TILL GEOCHEMICAL ANALYSES

SAMPLE		Ag	Cu	Ni	Pb	Zn	Co	%Fe	Mn	Ca	Mg	Mo	U	As	Sn	W	DEPTH(m)
82	1	<0.10	38	37	7	151	25	5.90	900	1800	6600	<1	1.00	5	—	—	1.0
82	2	<0.10	56	40	30	151	16	4.20	980	3600	5600	<1	0.40	19	45	10	1.0
82	3	<0.10	44	49	25	99	20	4.60	1600	100	6400	2	0.80	19	15	10	1.0
82	31	<0.10	55	50	15	84	22	4.40	1000	900	8600	<1	1.40	23	5	4	2.0
82	32	<0.10	29	41	29	84	25	3.90	1800	200	4800	2	1.20	18	15	8	2.0
82	33	<0.10	16	50	12	59	18	4.80	480	200	4600	<1	1.10	7	—	—	2.0
82	34	<0.10	44	41	14	103	16	**6.40**	1800	500	9800	<1	0.30	14	10	4	3.0
82	36	<0.10	38	44	18	103	22	4.90	830	100	7400	<1	0.90	15	—	—	1.5
82	37	<0.10	21	34	24	113	16	4.10	710	**4000**	8500	2	0.80	9	—	—	1.5
82	38	<0.10	29	51	16	95	20	5.00	1100	100	8800	2	**3.20**	10	10	12	2.5
82	39	0.10	42	47	19	96	24	6.00	1000	100	6600	1	2.10	19	10	<2	1.5
82	40	<0.10	19	24	25	43	11	6.20	540	100	2700	4	1.00	12	5	2	1.5
82	43	<0.10	24	39	8	120	23	6.40	880	200	9600	<1	2.60	14	30	16	2.0
82	44	<0.20	42	37	37	117	15	5.20	**2250**	500	8800	<1	1.60	17	10	14	2.0
82	45	<0.10	16	26	18	61	19	3.70	1650	200	4600	1	1.40	20	10	8	1.0
82	46	<0.10	24	35	24	108	15	3.90	800	200	8400	<1	1.40	12	35	10	1.0
82	47	<0.10	28	40	15	95	19	4.60	800	100	7600	<1	0.80	14	15	10	1.5
82	48	<0.10	21	25	27	66	10	5.40	560	100	3700	3	0.50	14	—	—	1.0
82	49	<0.10	31	30	24	135	9	5.00	400	100	5200	<1	0.50	11	10	8	1.0
82	50	<0.10	62	**53**	12	75	24	6.30	1250	800	**12200**	<1	<0.10	26	30	12	1.5
82	51	<0.10	36	43	32	103	19	4.10	670	600	8000	2	1.20	12	—	—	2.0
82	52	<0.10	34	38	13	77	20	5.60	1000	100	**10800**	1	0.70	14	45	14	1.0
82	53	<0.10	55	48	16	68	15	4.20	380	300	8400	<1	1.80	5	45	8	1.0
82	54	<0.10	89	73	30	108	42	4.50	1600	200	8200	2	2.40	41	10	4	1.5
82	55	0.10	13	30	15	72	12	5.60	380	200	5000	<1	1.30	29	10	8	1.0
82	56	<0.10	37	43	18	104	17	6.00	710	200	6000	<1	1.20	15	5	6	2.0
82	57	0.20	23	40	6	71	14	4.20	430	100	6200	<1	1.10	4	25	14	1.0
82	58	<0.10	18	43	43	74	17	5.50	650	100	3800	2	0.70	27	30	6	1.5
82	59	0.10	10	**53**	8	76	21	5.00	320	100	4800	<1	1.80	19	5	4	1.0
82	61	<0.10	56	48	25	81	21	**6.40**	820	200	5800	<1	1.70	24	10	2	1.0
82	62	<0.10	8	23	37	33	9	5.40	300	100	1400	4	1.70	22	30	<2	1.5
82	63	0.10	**111**	84	15	45	**57**	5.10	**2500**	100	6400	<1	1.30	90	30	12	2.0
82	64	<0.10	39	43	16	71	19	4.90	860	300	7600	<1	1.20	16	15	8	2.0
82	65	0.10	69	47	**54**	152	16	4.60	475	100	9000	<1	2.00	14	**95**	12	1.0
82	66	<0.10	57	45	58	201	18	4.70	750	200	8000	<1	15.00	1	15	20	1.0
82	67	<0.10	30	36	41	116	12	5.40	820	200	5600	<1	0.90	10	15	20	0.5
82	68	<0.10	45	36	33	139	14	4.80	720	100	6300	2	0.80	13	15	16	1.5
82	69	<0.10	69	50	26	108	23	5.40	1200	100	7600	<1	**19.00**	1	10	14	1.5
82	70	<0.10	36	44	30	153	14	4.90	810	100	6100	3	1.00	9	**50**	20	1.0
82	71	<0.10	47	49	38	**201**	24	3.90	1500	500	6800	2	1.20	14	20	20	1.0
82	72	<0.10	41	34	15	118	20	5.30	1000	100	7000	<1	1.10	12	15	24	1.5
82	73	<0.10	47	46	30	135	15	4.90	1000	100	7200	2	1.00	15	5	18	2.0
82	74	<0.10	64	42	33	128	18	3.90	920	100	6400	2	0.50	8	10	14	1.5
82	75	<0.10	77	44	10	61	19	4.90	860	100	5600	2	1.50	28	5	10	2.0
82	76	<0.10	**119**	45	14	99	23	5.10	1400	100	6400	1	0.90	26	5	10	2.0
82	77	<0.10	31	35	18	90	17	3.90	**2000**	200	7200	1	0.80	15	5	8	1.0
82	78	<0.10	56	38	21	113	17	5.00	930	300	7600	<1	1.10	8	35	24	1.5
82	79	0.10	46	50	27	169	23	5.30	1200	600	**10000**	<1	2.60	18	20	10	1.0
82	81	<0.10	30	42	12	67	18	6.00	1400	100	4400	1	2.30	39	5	2	1.0
82	83	<0.10	51	42	15	64	20	5.20	1000	100	5400	<1	1.60	12	5	14	1.0
82	84	<0.10	21	33	21	49	16	5.00	960	100	4200	1	1.70	17	5	4	1.5
82	85	<0.10	26	41	13	73	17	6.00	1200	100	5200	1	0.70	12	5	2	1.0
82	86	<0.10	64	42	14	71	21	4.40	960	100	5600	1	1.00	20	45	6	1.5
82	87	0.10	32	36	16	93	18	4.60	900	100	5600	<1	0.80	18	20	2	1.0
82	88	<0.10	69	36	67	166	18	4.10	950	100	6000	3	0.80	15	15	16	1.0
82	89	0.10	82	44	59	144	21	5.40	1850	100	6400	<1	1.00	35	10	28	1.5
82	90	<0.10	18	34	4	95	13	4.00	480	600	5800	<1	**4.00**	—	5	2	2.0
82	91	<0.10	76	41	8	110	21	5.30	640	100	6200	<1	1.30	9	20	4	1.5
82	92	<0.10	60	37	**57**	**185**	21	5.00	**2000**	600	8600	<1	0.80	13	50	10	1.5
82	93	<0.10	38	39	33	142	17	4.60	900	100	8000	<1	0.50	10	—	—	1.5
82	94	<0.10	34	41	47	183	17	4.40	1200	100	6000	1	1.00	11	10	12	2.0
82	95	<0.10	56	37	36	155	18	5.30	1800	100	**8200**	<1	0.90	12	40	20	1.5
82	96	<0.10	**116**	33	39	173	15	4.30	1350	100	6200	1	0.50	—	25	20	0.5
82	97	<0.10	78	39	20	126	23	5.60	1400	200	7800	1	0.70	21	15	6	1.0
82	98	<0.10	72	43	39	154	22	5.50	1800	100	7000	<1	1.10	16	10	**50**	1.5
82	99	<0.10	29	47	**379**	199	31	4.70	**2800**	100	8000	<1	0.60	21	5	14	0.5
82	101	<0.10	31	35	35	140	16	4.00	820	100	6200	<1	1.20	10	20	20	1.0
82	102	<0.10	26	47	20	91	22	4.60	1450	100	7000	1	0.70	15	—	—	1.5
82	103	<0.10	76	43	8	57	21	5.60	960	100	5800	<1	1.00	20	5	4	2.0
82	104	0.20	80	39	23	107	19	5.30	830	100	6600	<1	0.80	19	10	12	1.0
82	105	<0.10	55	43	37	154	16	5.20	1500	300	6800	3	1.20	13	20	8	1.5
82	106	<0.10	36	46	21	102	18	4.50	1100	200	7300	2	<0.1	13	35	2	1.5
82	107	<0.10	52	37	30	162	15	4.70	1150	4000	**11600**	<1	**13.00**	**80**	**80**	12	1.5
82	109	<0.10	79	37	79	**375**	15	5.00	1250	300	7200	<1	0.50	26	15	20	1.0
82	110	<0.10	62	38	46	**229**	17	4.10	1200	300	5800	2	1.10	13	75	10	1.5
82	111	<0.10	68	45	32	113	21	4.40	1050	100	6000	3	0.80	24	25	30	1.5
82	112	<0.10	70	19	41	153	8	2.90	**2650**	400	4000	<1	0.50	16	10	14	1.5
82	113	<0.10	61	45	40	179	20	4.80	1000	**4600**	**10000**	<1	0.30	8	15	10	1.5
82	114	<0.10	30	42	24	76	17	4.10	800	**5600**	8400	<1	0.50	10	**85**	10	3.0
82	115	<0.10	77	30	43	80	18	4.70	**4400**	400	7000	2	1.60	12	10	6	2.0
82	116	0.50	20	39	20	78	18	3.60	1400	600	**10400**	2	1.20	8	20	6	2.0
82	117	<0.10	19	37	24	93	15	3.90	1050	3000	8200	1	**4.00**	15	55	6	1.5
82	118	<0.10	**78**	41	**47**	172	12	4.50	1050	200	8000	<1	1.50	24	10	12	1.5
82	119	<0.10	10	38	29	99	13	3.20	1400	2600	8000	3	0.30	4	10	10	1.5
82	121	<0.10	32	34	32	132	16	4.60	620	300	8400	<1	0.50	9	10	10	1.5
82	123	<0.10	54	40	18	109	17	5.50	810	200	6200	<1	1.30	12	25	20	1.5
82	124	<0.10	86	44	70	138	27	5.20	**3200**	400	6600	1	0.50	**39**	10	8	1.5
82	125	<0.10	59	40	27	109	21	4.50	1800	100	6500	2	0.80	25	10	24	1.5
82	126	<0.10	62	36	40	177	21	4.40	**2000**	100	6400	<1	0.80	14	45	10	1.0
82	127	<0.10	**111**	42	**146**	**224**	21	5.70	**2100**	200	6800	<1	1.00	<2	39	5	2.0
82	128	0.10	**88**	43	60	133	21	5.20	**3500**	100	7800	<1	0.50	26	5	16	1.5
82	129	<0.10	78	34	14	84	21	5.40	1700	100	4200	<1	0.50	21	3	8	1.5
82	130	<0.10	58	40	12	103	19	4.50	520	200	5600	<1	0.80	10	25	14	1.0
82	146	<0.10	59	33	16	59	15	3.40	620	300	5600	2	0.50	8	10	10	1.5
82	198	<0.10	27	41	24	132	17	4.80	800	5400	10000	<1	0.60	14	25	6	5.0
82	201	<0.10	43	41	25	100	20	4.30	**2400**	1100	**10000**	<1	0.60	19	25	6	1.0
82	217	<0.10	29	41	9	66	35	4.60	2700	300	5800	1	0.70	32	5	6	1.5
82	218	<0.10	33	34	9	36	16	4.00	650	100	3500	3	0.50	18	5	4	1.0
82	219	<0.10	35	41	24	111	17	4.30	780	500	6500	<1	0.60	12	**115**	6	1.5
82	237	<0.10	26	48	30	107	17	4.60	830	3700	8800	<1	0.50	13	45	6	5.0
82	239	<0.10	42	48	26	102	18	4.20	1000	**3900**	8800	1	0.50	12	10	6	2.0
82	244	0.10	105	39	55	127	23	4.00	1200	900	**12400**	1	3.50	12	15	6	1.0
82	333	<0.10	50	47	15	52	25	**5.90**	1200	100	7400	2	0.80	24	5	2	1.0
82	334	<0.10	119	58	10	32	20	4.70	810	500	6000	1	0.90	39	5	10	1.0
82	335	<0.10	36	**59**	9	56	25	5.20	1200	100	6800	4	0.30	15	5	2	1.0
82	336	<0.10	33	47	18	58	25	5.70	1800	100	7500	2	1.00	**33**	30	4	1.5
82	338	<0.10	54	**54**	11	85	31	4.90	725	100	6000	1	1.30	19	10	2	1.5
82	339	<0.10	**406**	72	22	62	**61**	4.90	**3200**	100	5400	1	1.10	**100**	15	4	5.0
82	341	<0.10	48	32	22	68	17	4.63	1300	100	4400	<1	0.80	6	10	6	1.0
82	343	<0.10	20	40	13	44	19	4.50	440	100	4600	1	1.10	11	5	6	1.5

ALL VALUES IN PPM EXCEPT %FE — NOT ANALYSED

STATISTICS CHART

TILL TYPE ELEMENT	EATONVILLE TILL N = 72		SHULIE LAKE N = 22		McCARRON BROOK TILL N = 15		JOGGINS TILL N = 16		RESIDUUM N = 6	
Ag	**0.07** 0.06	0.05-0.50 0.43	**0.06** 0.18	0.05-0.10 0.43	**0.08** 0.05	0.05-0.2 0.85	**0.86** 0.05	0.05-0.2 0.43	**0.66** 0.26	0.05-0.1 0.43
Cu	**41** 23	8-119 84	**61** 17	29-88 87	**28** 45	24-42 45	**39** 16	22-78 76	**147** 129	50-406 355
Ni	**40** 7	23-59 53	**42** 5	33-54 54	**37** 6	28-48 52	**35** 6	19-43 44	**62** 17	39-73 87
Pb	**24** 12	4-57 52	**53** 76	8-379 88	**22** 4	15-30 34	**21** 10	7-47 47	**25** 17	10-55 67
Zn	**101** 41	33-229 184	**148** 58	85-375 215	**109** 16	89-136 139	**121** 26	87-172 173	**71** 38	32-127 139
Co	**18** 4	9-25 26	**20** 5	14-31 34	**15** 3	11-21 23	**15** 4	8-21 25	**38** 18	20-61 64
Fe%	**4.8** 0.70	3.2-6.4 6.3	**4.9** 0.50	3.7-5.6 5.7	**3.9** 0.6	3.0-4.6 5.2	**3.8** 0.70	2.9-4.7 5.9	**4.9** 0.6	4.0-5.9 6.2
Mn	**1027** 611	300-4400 1933	**1390** 829	640-3550 1930	**694** 90	580-830 842	**812** 530	440-2650 1924	**1752** 914	810-3200 1986
Ca	**540** 1100	400-5600 3393	**650** 1312	100-4000 3797	**4380** 1056	3000-7100 6635	**3306** 1711	200-7000 6338	**317** 325	100-900 1141
Mg	**6810** 1981	1400-12000 9991	**6877** 802	5600-8200 8107	**8228** 1180	6000-10000 9887	**7313** 1916	4000-11600 11288	**7633** 2541	5400-12400 12773
Mo	**1.2** 1.0	0.5-4.0 4.3	**1.1** 0.9	0.5-3.0 4.3	**0.5** *	* *	**0.5** 0.2-0.21	0.5-1.0 4.3	**1.3** 0.6	0.5-2.0 4.3
U	**1.00** 0.80	0.5-4.00 2.90	**2.30** 4.80	0.05-19.00 15.50	**0.30** 0.18	0.05-0.60 4.30	**1.20** 3.20	0.05-13.00 11.70	**1.67** 1.07	0.80-3.50 4.16
As	**15** 6	4-33 33	**17** 10	0.1-39 36	**10** 2	8-14 34	**15** 18	5-80 76	**51** 36	12-100 105
Sn	**23** 23	2-115 79	**20** 14	5-50 49	**52** 24	10-85 95	**26** 21	10-80 77	**13** 9	5-15 31
W	**9** 5	1-24 26	**18** 10	2-50 36	**12** 6	4-28 34	**16** 5	10-24 33	**6** 4	2-10 17
	MEAN STANDARD DEVIATION	RANGE 95TH PERCENTILE	All values in ppm except Fe which is in per cent. Mean values of each element for the mapped till units are boldfaced.						*not calculable	

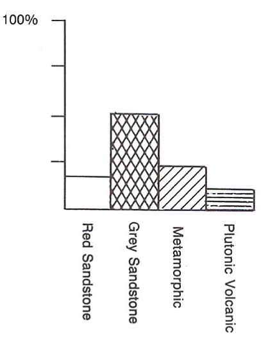
TILL PEBBLE LITHOLOGY

SAMPLE NUMBER	% RED SEDIMENTARY ROCK	% GREY SEDIMENTARY ROCK	% METAMORPHIC ROCK	% GRANITIC-VOLCANIC ROCK
1	0.0	100.0	0.0	0.0
31	0.9	0.9	88.1	0.0
32	9.3	6.6	82.6	0.9
33	67.6	0.5	14.8	17.0
34	0.0	0.0	9.4	2.8
36	10.9	15.8	55.2	11.5
38	0.4	2.5	71.2	16.5
39	22.8	14.4	41.1	21.7
40	32.9	0.0	0.0	0.0
43	2.7	0.0	15.9	81.4
44	0.0	25.5	52.0	19.6
45	1.2	5.2	64.3	28.8
46	0.5	1.4	62.8	30.7
47	8.0	16.1	52.6	23.4
48	0.0	3.1	91.5	3.1
49	6.9	10.3	63.2	18.4
50	0.0	0.0	95.6	4.4
51	13.5	8.6	76.1	0.0
52	0.0	0.0	100.0	0.0
53	0.0	0.0	99.2	0.0
54	0.0	0.0	100.0	0.0
55	21.9	62.5	10.4	3.1
56	53.0	27.2	17.9	2.0
57	0.0	15.7	80.7	1.2
58	63.2	9.1	26.9	0.0
59	100.0	0.0	0.0	0.0
61	0.0	5.2	92.0	2.7
62	100.0	0.0	0.0	0.0
63	1.0	2.3	93.8	0.3
64	7.2	3.6	8.4	76.9
65	16.5	48.9	22.3	10.6
66	0.0	66.4	24.3	9.3
67	0.8	40.6	52.5	4.2
68	0.9	96.3	2.3	0.5
69	0.0	97.3	1.8	0.0
70	0.5	92.3	5.0	2.3
71	2.0	92.5	0.0	0.0
72	1.9	97.2	0.0	0.0
73	3.8	94.7	0.5	1.0
74	11.0	82.2	3.2	0.0
75	25.8	52.3	18.0	3.9
76	24.9	71.8	1.6	1.6
77	10.9	11.2	49.8	21.2
78	0.0	52.0	35.7	11.7
79	1.0	6.5	12.4	80.1
81	1.2	2.5	95.7	0.6
83	6.4	6.4	87.2	0.0
84	0.0	4.7	10.1	2.2
85	5.7	0.0	94.3	0.0
86	8.1	17.8	66.5	2.7
87	50.7	4.5	34.4	10.4
88	2.7	92.8	3.6	0.9
89	39.5	58.8	0.9	0.0
91	0.9	100.0	0.0	0.0
92	2.6	94.8	0.5	2.0
93	1.4	97.3	0.0	1.4
94	0.5	91.4	3.5	0.0
95	0.0	90.0	8.8	1.3
96	0.0	98.9	0.0	1.1
97	0.6	95.1	3.6	0.6
98	2.1	97.5	0.0	0.0
99	0.0	100.0	0.0	0.0
101	2.4	93.2	4.4	0
102	21.9	2.6	71.6	3.9
103	0.0	8.2	87.5	2.6
104	11.9	88.1	0.0	0.0
105	22.7	75.0	0.0	0.5
106	53.2	46.8	0.0	0.0
109	4.9	92.2	1.0	1.5
110	15.7	55.6	5.2	7.9
111	5.5	84.1	1.4	1.0
113	46.4	43.1	10.0	0.5
114	1.4	5.0	84.2	6.8
115	80.1	14.2	5.7	0.0
116	73.7	16.9	8.5	0.9
117	72.1	21.2	6.7	0.0
118	17.6	82.4	0.0	0.0
119	100.0	0.0	0.0	0.0
121	15.0	75.0	0.0	0.0
122	11.5	75.0	13.5	0.0
123	6.2	85.2	8.6	0.0
124	0.0	94.8	1.7	3.5
125	0.9	99.1	0.0	0.0
126	0.0	98.9	0.0	0.0
127	0.0	99.5	0.5	0.0
128	0.3	84.2	14.2	0.6
129	48.3	47.6	3.5	0.7
130	46.9	49.2	2.3	1.6
146	2.6	1.3	94.0	2.1
201	87.4	8.4	3.4	0.0
218	89.3	8.8	0.3	1.1
219	10.1	14.3	71.4	3.0
237	2.3	5.2	86.7	5.8
239	0.0	1.7	86.7	11.6
334	0.0	0.0	96.8	3.2
335	2.9	0.0	97.1	0.0
337	6.0	6.0	84.0	4.0
338	9.4	83.2	6.0	1.3
343	5.7	1.7	88.1	4.5

NOTE: The percentages of limestone clasts and 'others' are left out for simplicity. Metamorphic clasts may include reworked Carboniferous conglomerate pebbles counted in 'others'.

Map Unit block (NOTE 1)	E
Location of "non-anomalous" sample (NOTE 1)	•
Location of "anomalous" sample (NOTE 1)	▲
Sample number	57
Anomalous elements and anomaly values (NOTE 2)	*Cu 1.6* *Mn 1.2*
Total anomaly values (NOTE 2)	▲ *1-3* ▲ *3-5* ▲ *>5*

TILL LITHOLOGY HISTOGRAM



Only representative samples on map

NOTE 1: Dots represent till sample locations in which none of the 15 analyzed elements are anomalous. Triangles represent samples with one or more anomalous elements. Map unit block above the sample number means that the till sample was obtained from that unit designated, which underlies the surface drift unit.

NOTE 2: "Anomalous" values are taken to be all values greater than or equal to the 95th percentile of the cumulative frequency distribution determined separately for each till unit from which the sample is derived (see Statistics Chart). These are shown as boldfaced numbers in the analyses list. All the anomalous elements are listed on the map under the sample number. "Anomaly values" shown beside the anomalous elements represent the ppm or % value divided by the 95 percentile value. The "total anomaly value" of the sample is equal to the sum of all the anomaly values of the anomalous elements in the sample. Three triangle sizes are used to designate the total anomaly value of the sample (see symbols legend).

NOTE 3: All elements except Sn and W were analyzed using the clay fraction (<2 micrometres). Sn and W were analyzed from heavy mineral separates (Tetrabromethane, S.G. = 2.96) of the fine and medium sand fractions (62.5- 300 micrometres of the till sample

NOTE 4: All elements were analyzed by Atomic Absorption Spectrophotometry except As and W (Colorimetry) and U (Fluorometry). Analyses by Bondar-Clegg and Co. Ltd., Ottawa.

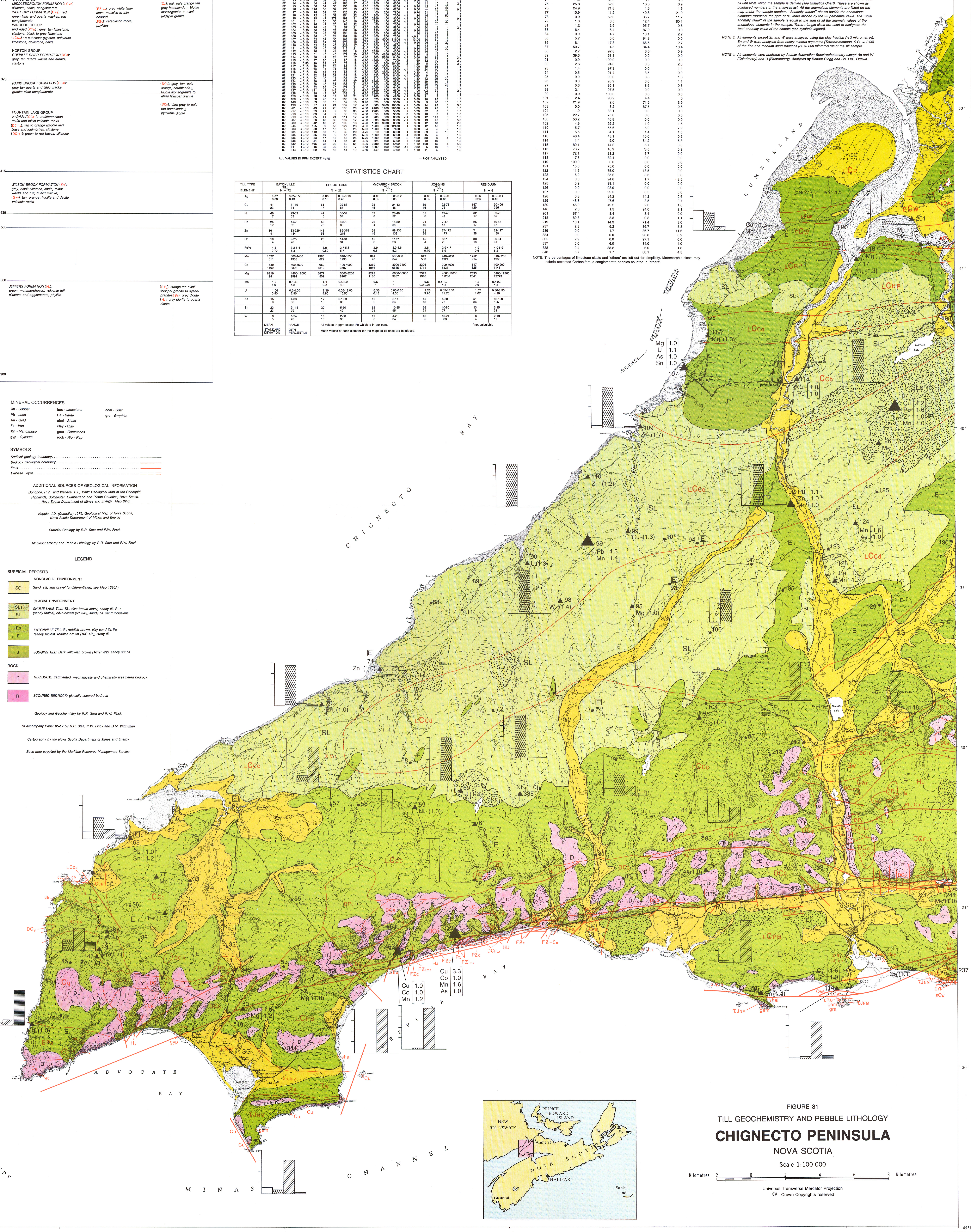


FIGURE 31

TILL GEOCHEMISTRY AND PEBBLE LITHOLOGY

CHIGNECTO PENINSULA

NOVA SCOTIA

Scale 1:100 000

Kilometres 2 0 2 4 6 8 Kilometres

Universal Transverse Mercator Projection

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FIGURE 31
PAPER 85-17
CHIGNECTO PENINSULA
NOVA SCOTIA