Table 1. Geochemical analyses of sediments from the Shungnak D-2 quadrangle, Alaska

Map No.	Field No.	Stream or Valley	Approx. Altitude	Bedrock Nearby	ATOMIC ABSORPTION ANALYSES: Important Heavy Metals: Au ppm	Cu ppm	Pb ppm	Zn ppm	SPECTROGRAPHIC ANALYSES: Important Heavy Metals: Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Mafic and Ultramafic Association: Co ppm	Cr ppm	Ni ppm	Mn ppm	Ti %	Fe %	Carbonate Association: Mg %	Ca %	Ba ppm	Sr ppm	Felsic Association: B ppm	Be ppm	Zr ppm	Rare Earth Association: La ppm	Nb ppm	Sc ppm	Y ppm	Other Elements: As ppm	V ppm
1	25	Valley E	1640	Mainly ls;	<.04	58	38	150	70	30	L	7		20	700	300	700	.7	10	5	.07	1500		50	1.5	150	30	15	30	30		200
2	24	of	1615	cong, phyl;	<.02	38	26	110	70	20	L	L		20	1500	500	700	.7	10	5	.1	1500		50	1	300	30	10	30	30		200
3	23	Inerevuk	1450	minor ser-	<.02	35	25	100	70	20	L	L	L	20	700	500	700	1.0	15	3	.3	1500	L	100	1	700	30	10	30	50		300
4	22	Mountain	1345	pentinite	In. Sam.	57	46	180	70	20	L	L	L	100	3000	1500	700	1.0	15	5	.3	1500	L	150	1	500	30	10	20	30		300
5	21		1250	near head	<.02	40	40	160	70	20	L	L		20	700	1500	700	.7	10	5	7	1500	L	70	1	300	50	10	20	30		300
6	20		1110	Mainly phyl	<.02	40	30	140	70	30	200	L		30	500	1500	1000	1.0	15	5	3	1500	L	100	1	300	50	10	30	30		300
7	19		1090	ls to W.	<.02	42	32	150	50	20	L	L		20	300	1000	700	1.0	10	5	3	1500		70	1	300	70	10	20	30		200
8	17		920	Phyl & Ser-	In. Sam.	45	25	130	100	15	L	L		20	300	150	700	1.0	15	3	1.5	1500		30		200	L	10	30	30		200
9	16		910	pentinite;	In. Sam.	37	< 25	110	70	10	L	L		15	300	150	1500	1.0	10	3	1.5	1500	L	50	L	300	30	10	30	30		200
10	14		860-870	limestone	In. Sam.	47	28	140	100	15	300	5		20	700	300	700	1.0	15	3	3	1500	L	50	L	100	30	15	20	30		150
11	13		820	1800' W	<.02	39	25	120	50	15	L	L		15	500	150	700	.7	7	3	2	1000		30	L	100	20	10	20	30		150
12	12		800		In. Sam.	56	30	140	150	20	200	L		15	300	150	700	.7	7	5	2	1500		50	1	150	30	15	20	30	L	200
13	11		790		In. Sam.	47	28	140	70	15	300	L	L	15	300	150	700	1.0	5	5	2	1500	L	50	L	100	30	15	20	50	L	150
14	10		770		<.02	51	28	140	70	20	L	L	L	20	300	300	1000	.7	5	3	1.5	1000		50	1	150	30	15	20	30		150
15	26		1435	Limestone	<.02	<10	40	46	7	15		L			70	30	200	.15	1.5	7	15	300	150	30		70	30	L	7	30		50
16	6	Valley SE	1650	Mainly ls;	<.02	<10	52	38	10	30	L				70	70	150	.03	.7	7	10	70		20		30	L	L	5	L		30
17	7	of	1550	cong &	<.02	<10	68	28	7	15	L				30	30	150	.03	.3	7	10	L		10	1	30		L	L	L		20
18	8	Inerevuk	1500	phyllite	<.02	<10	62	30	7	15	L				30	15	100	.03	.3	7	10	50		L		20		L	L	L		20
19	9	Mountain	1420	near head	<.02	<10	50	25	5	15					70	30	100	.03	.3	7	7	70		L		20		L	L			30
20	75		1175		<.02	4	< 25	110	15	15	L	L	L	15	500	300	500	.5	5	2	1.5	700	100	30	1.5	150	50	15	15	30	L	150
21	76		1170		<.02	<10	< 25	25	7	10		L			20	L	150	.03	.3	7	10	50	L	L		20	L	L	L	L		30
22	77		1160		<.02	10	< 25	40	10	10				10	200	70	300	.15	2	7	10	200	L	15		50	20	L	7	10		30
23	78		1000		<.02	20	< 25	70	30	30	L	5	.5	15	200	150	300	.2	5	7	15	700	150	70	1	70	50	10	10	20		150
24	79		900-1000		<.02	10	< 25	40	7	15	L	L		10	300	100	200	.15	3	7	15	300	L	30	L	70	L	L	7	20		70
25	80		890-900		<.02	15	< 25	50	20	20	L	5	L	15	500	150	300	.2	3	7	15	700	100	30	1	70	30	10	10	20		100
26	5	Valley SSE	1650	Mainly	.06	19	36	100	15	15	L	L		100	1500	1500	1000	.5	10	5	.15	700		70	1	200	30	10	15	30		150
27	4	of	1525	serpentin-	.04	16	25	40	15	10	L	L		500	2000	> 5000	1500	.15	10	10	.15	300		100		70	L	10	20	20		70
28	3	Inerevuk	1320	ite	.04	25	25	80	30	15		L		15	1500	150	500	.5	5	3	.07	700		50	1	200	50	10	20	30		150
29	2	Mountain	1220		<.02	59	34	160	70	30	L	5		15	300	100	500	.7	10	3	.15	1000		70	1	300	30	15	20	30		150
30	1		1140		<.04	62	44	84	70	30	300	10		700	5000	>>5000	> 5000	1	20	7	.05	700		30	1	30	L	10	20	30	300	70
31	62	Stockley	780	Mainly	<.02	65	< 25	66	100	10	L			20	200	150	1000	1	10	5	3	700	150	20	L	200	30	L	30	30		300
32	63	Creek	800	phyl; some	<.02	70	26	74	100	L	L			30	300	200	1500	1	10	5	2	700	L	10		200	20	10	30	30		300
33	64		875	serpentin-	<.02	70	25	70	150	L	L			50	300	200	2000	1	15	5	3	700	100	20		300	20	L	50	50		500
34	65		925	ite &	<.02	62	< 25	60	150	L	L			70	500	300	2000	1	15	5	3	700	100	10		300	20	10	50	50		500
35	66		950	greenstone	<.02	78	28	80	150	L	L			50	500	200	3000	1	15	5	5	1000	100	15		500	20	10	50	50		500
36	67		1000		<.02	84	26	70	150	L	L			70	300	200	3000	1	15	5	3	700	100	15		300	20	10	50	50		300
37	68		1050		<.02	100	30	84	150	L	L			70	500	200	2000	1	20	5	3	1000	100	15		300	L	10	70	50		300
38	69		1100		<.04	77	26	68	150	L	L			30	300	150	1500	1	15	5	3	700	100	10		300	L	10	50	30		300
39	70		1150		<.02	68	26	54	70	10		L		15	700	150	700	1	10	3	2	300	200	10		150	30	10	50	30		200
40	71		1200		<.02	81	28	68	150	10	L	7		30	200	150	1000	1	10	5	3	700	200	15	L	150	50	20	50	50		300
41	48	Harry	650	Mainly	<.02	65	< 25	78	70	L	L			20	150	100	700	.7	10	3	3	700	300	10	L	150	30	10	30	30		300
42	49	Creek	690	greenstone;	<.02	72	25	78	150	L	L			30	300	150	1000	1	15	5	5	700	300	10		150	30	10	70	50		500
43	50		725	subor-	<.02	65	< 25	58	100	L	L			20	150	70	500	.5	5	3	2	500	300	L		70	30	10	30	30		150
44	51		750	dinate phyl	In. Sam.	57	< 25	60	150	10	L			50	300	150	700	1	10	5	3	1000	300	20		150	20	10	30	50		300
45	52		820		<.04	62	28	86	100	L	L			20	300	150	1000	1	10	5	3	1000	200	30	L	200	30	10	30	50		300
46	53		840-860		<.04	64	30	86	100	10	L			50	200	150	1500	1	15	5	2	1000	200	20	L	150	20	10	30	30		300
47	54		860		In. Sam.	32	< 25	30	100	L	L			30	200	150	1000	1	10	5	3	500	150	10		200	20	10	30	30		200
48	55		860-900		<.02	52	< 25	60	150	L	L			20	200	200	1000	1	10	5	2	700	150	15	L	200	50	10	30	30		150
49	56		900		<.02	42	< 25	54	100	10	L			20	200	200	1000	1	10	5	2	700	150	15		150	20	10	30	30		200
50	57		900-950		<.02	41	< 25	54	70	10	L			50	300	300	700	1	10	5	2	700	150	30		200	20	10	30	30		150
51	58		1000		In. Sam.	100	< 25	54	150	L	L			30	200	70	1000	> 1	10	5	3	300	300	L	L	100	20	10	30	30		200
52	59		1030		In. Sam.	110	< 25	58	150	L	L			50	300	70	700	> 1	15	5	3	150	300	L		70	20	10	30	30		300
53	60		1100-1150		<.04	94	< 25	58	150	L	L			50	300	100	1000	> 1	15	5	5	500	300	15	L	100	30	10	50	50		300
54	61		1210		<.02	110	< 25	64	150	L	L			30	150	70	1000	1	15	3	3	700	200	10		150	20	10	30	30		200
55	27	Wye	650	Mainly	In. Sam.	40	30	140	30	30	L	7		20	300	100	500	.5	5	3	.3	1500	L	70	1	200	100	15	20	30		150
56	28	Creek	700	phyl; minor	<.02	39	28	100	30	20	L	7		15	300	70	300	.7	7	3	.05	1500		100	1	200	30	20	30	30		200
57	29		800	gs, ls &	.20	53	36	86	70	30	L	L		10	200	70	300	.7	10	2	.07	1000		100	1.5	300	70	15	20	30		200
58	30		810	serpen-	In. Sam.	40	30	130	70	20	L	5		15	300	150	700	.7	10	3	.5	1500		70	1	300	50	20	20	30		200
59	31		880	tinite	In. Sam.	53	30	150	70	30	L	5		15	300	150	700	.7	7	3	.5	1500		100	1	200	50	15	20	30		200
60	32		880		In. Sam.	45	30	130	50	30	L	7	.7	15	1500	70	300	.7	5	3	.2	1500		70	1	200	70	15	20	30		150
61	33		880		<.02	51	34	140	30	20		7	L	15	300	150	500	.7	5	2	.3	1500		50	L	200	70	10	20	30		200
62	34		925		In. Sam.	50	34	140	30	20	L	7	L	30	700	150	500	.7	7	3	.3	1500		70	1	200	50	15	20	30		200
63	35		925		<.04	65	34	190	100	15	L	5		50	500	200	1000	1	15	5	1	1500		150	L	300	50	10	30	70		500
64	36		925-940		<.04	53	30	160	70	30	L	7		20	300	150	700	.7	10	3	.3	3000		50	1	200	50	15	20	30		200
65	37		950		<.02	53	28	140	50	20	L	5		15	150	150	700	.7	7	2	.3	2000		50	1	150	30	10	20	30		150
66	38		1000		In. Sam.	51	38	140	70	20	L	L		15	500	150	300	1	15	3	.3	1500		100	1	300	30	10	20	30		300
67	39		1050		<.04	65	36	180	150	15		L		20	500	200	700	1	15	3	.7	1500		70		300	30	10	30	30		300
68	40		1070		<.02	58	30	150	150	15	L	L		20	700	300	1500	> 1	15	5	1.5	2000		100		300	30	L	30	30		700
69	41		1145		In. Sam.	48	26	130	150	15	L	5		20	500	150	1500	1	15	3	.7	3000		100	1	300	50	10	30	70		300
70	42		1220		In. Sam.	46	25	140	100	15	L	L		15	700	200	700	> 1	15	3	.7	2000		100		500	L	10	30	50		500
71	43		1230		<.02	40	28	130	100	15	200	5		20	500	150	700	1	15	5	.7	2000		150	L	500	70	10	30	30		300
72	44		1240		<.02	45	36	150	70	15	L	5		15	300	150	500	1	15	3	.3	1500		100	L	500	L	10	30	30		300
73	45		1270		In. Sam.	83	40	180	150	15	L	5		30	700	200	1000	> 1	15	3	1.5	2000	L	100	L	500	30	10	30	30		500
74	46		1320		<.04	74	34	150	150	15	L	5		50	500	300	2000	> 1	15	5	2	3000	L	100	L	500	30	10	30	30		700
75	91	Radio	1050	Mainly	<.10	90	< 25	160	50	L	200	L	=	20	150	70	700	.3	5	3	3	1000	200	15		100	20	10	20	30		150
76	92	Creek	850	phyl;	<.02	70	< 25	75	150	L	L	L		20	100	70	500	.5	5	2	2	700	200	10		100	20	15	30	20		150
77	93		750	minor ls	<.02	55	< 25	80	50	10	L	L		20	200	100	700	1	7	3	5	700	300	20		100	30	15	50	50		200
78	94		650	& gs	<.10	40	< 25	60	20	L	L	L		20	100	70	500	.3	5	3	2	500	200	30		100	30	10	20	30		150
79	95		550		<.02	40	< 25	70	20	L	L	L		15	150	70	500	.5	5	3	3	1000	200	20	1	200	30	15	20	30		150
80	96		450		<.02	30	< 25	60	30	L	L	L		20	200	100	700	1	10	3	3	700	200	30		100	L	10	30	50		200
81	97		300		<.02	35	< 25	60	30	L	L			15	100	70	500	.5	5	2	3	500	200	30		100	30	10	30	30		150
82	90	(S. bank)	1000	Phyllite	<.02	40	< 25	120	30	30	L			15	100	70	500	.5	5	2	2	500	150	100	1	300	50	L	15	30		150
83	83	Glacier	1030	Mainly	<.02	70	< 25	150	70	10	200	7		20	150	70	500	.2	7	2	1	1000	200	50	L	100	70	15	20	50		150
84	82	Creek	780	phyl; gs	<.02	85	25	170	100	15	300	7		20	150	100	1000	.2	7	2	1.5	1500	150	50	L	150	50	15	20	50		150
85	84		730	near head;	<.04	60	< 25	110	100	L	200	L		20	150	70	700	.3	7	2	2	1000	300	50		150	30	15	30	50		200
86	85		670	minor	<.04	80	< 25	100	70	10	L	5		20	100	100	500	.3	7	2	3	1000	300	50	L	100	70	15	20	30		150
87	86		610	limestone	<.04	70	< 25	130	70	20	L	L		20	100	100	700	.3	5	2	2	1500	200	30	1	100	70	15	20	30		200
88	87		530		<.04	75	< 25	140	70	20	L	L	L	15	100	70	700	.5	5	2	2	1000	200	50		100	30	10	15	30		200
89	88		450		<.02	65	< 25	160	70	15	L	L		20	100	70	500	.5	5	2	1.5	1000	200	30	L	150	50	15	20	50		150
90	89		320		<.04	80	< 25	120	30	15	L	L		15	100	70	1000	.5	7	2	3	1000	300	100		150	70	15	30	30		200
91	81	(S. fork)	780	Phyl & gs	<.02	75	25	170	100	20	L	L	.5	20	100	70	700	.3	5	1.5	1.5	1000	150	30	1	100	70	10	20	30		150
92	98	Lynx	250	Granite	<.02	25	< 25	50	20	10	L			15	100	70	700	.7	10	2	3	500	300	70		150	70	L	50	50		200
93	99	Creek	300	gneiss;	<.02	25	< 25	70	20	20	L			15	150	70	500	.5	7	3	2	700	150	100		70	50	10	20	20		150
94	100		400	phyl to	<.02	55	< 25	90	200	15	L	L		20	150	100	500	.5	7	2	3	1000	150	70		300	50	10	30	30		200
95	101		500	E	<.10	35	< 25	80	50	15	200	L		20	150	100	500	.7	10	3	3	1000	150	50		300	50	15	30	30		200
96	102		650	Mainly	<.04	25	< 25	60	30	L	L			15	150	100	1000	.5	10	2	3	1000	200	20		300	70	10	50	50		200
97	103		700	phyl;	<.04	45	< 25	110	30	15	L			15	150	100	1000	.7	10	2	3	700	200	50		300	50	15	50	30		200
98	104		750	minor	<.02	45	25	95	50	20	200	L		15	150	100	700	.5	7	3	3	1500	200	50	L	200	50	L	30	50		150
99	105		875	ls & gs	<.02	30	< 25	80	30	10	200	L		20	150	70	700	.2	5	2	2	1000	200	10	1	100	50	L	30	30		150
100	106		1000		<.02	40	< 25	85	30	10	200	L		20	150	70	700	.2	5	2	2	1000	200	10	1	100	30	10	30	30		150
101	118	Lynx	230	Granite	<.02	35	< 25	50	70	15	L	L		15	150	150	1000	1	15	3	3	1500	100	50	1	300	70	10	50	50		300
102	119	Creek	350	gneiss;	<.02	53	< 25	56	100	20	L	L		15	150	150	1000	> 1	15	3	5	1000	300	30	1	300	70	15	50	50		200
103	120		470	phyl to	<.02	25	< 25	48	50	15	L	L		15	150	100	1000	1	10	3	3	1500	200	50	1	300	30	10	30	30		300
104	122		580	E	In. Sam.	30	< 25	58	150	20	L	L		15	200	100	1000	1	10	3	5	1500	200	200	1.5	300	50	15	50	50		300
105	123		625	Mainly	<.02	28	< 25	52	70	20	L	L		15	200	150	1500	1	10	3	3	1500	200	30	1	300	50	15	70	30		200
106	124		670	phyl;	.20	33	< 25	54	70	30	L	5		20	150	100	1500	> 1	10	3	5	1500	300	150	L	300	50	20	50	50		200
107	128		850	minor	<.02	43	< 25	64	100	15	L	5		20	200	100	1000	1	10	3	5	1500	300	150	L	150	30	15	50	50		200
108	129		900	ls & gs	<.02	50	< 25	54	100	15	L	L		30	500	150	1500	> 1	15	5	5	2000	300	30		200	30	10	70	70		500
109	130		930		<.02	40	< 25	54	70	10	L	L		20	300	150	1000	> 1	15	5	3	1500	200	20	L	300	20	10	50	30		300
110	121	(S. trib.)	650		<.02	54	< 25	54	150	30		L		20	200	150	1500	> 1	15	3	7	1500	300	200	L	500	70	15	70	70		300
111	125	(E. trib.)	720		<.04	37	< 25	70	30	15	L	L		15	150	100	700	.7	7	3	2	1500	200	30	L	200	30	10	30	30		300
112	126	(E. trib.)	900		<.02	40	< 25	66	100	15	L	L		15	200	150	1000	1	15	3	3	2000	200	50	1	300	30	15	50	30		200
113	127	(E. trib.)	990		In. Sam.	40	< 25	66	70	15	L	5		15	150	100	1000	1	7	3	3	1500	200	20	1	150	50	15	30	30		200
114	117	California	350	phyl;	<.02	25	< 25	55	15	15	L	L		15	150	70	1500	.5	5	3	5	1000	500	15		100	70	10	50	70		150
115	116	Creek	390	gs to E	<.02	70	25	95	70	L	L	L		20	2000	150	2000	1	10	3	3	700	150	10		200	20	L	50	50		300
116	115		550	greenstone	.90	65	< 25	80	70	10	L	L		20	300	70	1000	1	10	2	5	500	300	15		100	50	10	50	50		200
117	114		690	Phyl;	<.04	70	< 25	110	100	15	L	7		20	300	100	700	1	10	2	3	1000	100	30	L	150	30	10	50	50		200
118	113		775	greenschist	<.04	95	40	200	100	20	200	L		50	300	100	700	.7	10	2	2	1000	100	50		200	30	L	30	30		200
119	112		850	& minor	<.10	90	40	190	100	15	L	L		20	200	100	700	.5	7	2	1.5	700	100	100	1	200	30	L	30	30		200
120	111		915	limestone	.02	30	30	100	10	15	L	L		15	100	50	300	.5	5	1.5	1	500	200	50	L	100	30	L	20	70		150
121	107	Little Cr.	770		<.10	75	< 25	120	100	10	200	5		20	200	100	700	.5	10	3	2	1000	150	50	L	150	70	L	30	50		200
122	108	Juanita Cr.	850		<.02	45	< 25	120	70	L	200	L		15	150	100	500	.5	10	2	1.5	1500	150	100	1.5	300	30	10	30	50		200
123	109	Clara Cr.	900		<.02	80	< 25	140	150	L	L	L		50	200	150	700	.5	10	3	1.5	1500	100	30	L	200	70	L	50	50		200
124	110	Wonder Cr.	1000	Mainly phyl	<.04	60	35	160	50	10	200	L		20	200	100	500	.5	7	2	1	1000	150	50	1	200	70	L	30	50		150

R. Miller and R. Tripp, analysts
J. Curry, analyst, for samples (field numbers) 1-71 and 118-130
L. Martinez, analyst, for samples (field numbers) 81-117

In. Sam. means insufficient sample
Blank means element looked for, but not detected
L means element detected, but below limit of determination

< Means less than value shown
> Means greater than value shown
≫ Means much greater than value shown

GR37-SH4