

UNITED STATES DEPARTMENT OF THE INTERIOR  
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CHEMICAL ANALYSES OF ROCK AND SOIL SAMPLES FROM THE  
CHANDALAR AND EASTERN WISEMAN QUADRANGLES, ALASKA

Compiled by  
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Open-file report

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This report is preliminary  
and has not been edited or  
reviewed for conformity with  
Geological Survey standards

Analyses of rock and soil samples,  
Chandalar and eastern Wiseman  
quadrangles, Alaska  
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Analyses of samples collected in 1959, 1960 and 1967 are listed in Tables 1 and 2. Sample localities are shown on figures 1, 2 and 3, and are identified by map number of the samples. Field numbers in the tables are abbreviated. The prefix identifying the year is omitted from samples collected in 1967. The first and last letters are omitted from the symbols AR, ABe and AKm, which identify the collectors.

Analyses for gold, silver and zinc are by atomic absorption methods. Analyses for arsenic and for antimony in concentrations less than 100 p.p.m are by colorimetric methods. All other analyses are semi-quantitative spectrographic and are reported in the series 0.1, 0.15, 0.2, 0.3, 0.5, 0.7, 1.0, 1.5 and so on. Symbols are: N = not detected; L = detected but below limit of determination; B = blank, no data; > = greater than.

Limits of determination are:

Ag	As	Au	B	Ba	Bi	Cd	Co	Cr	Cu	La	Mn	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti		
parts per million																													
.1	10	.02	10	100	1	50	20	10	10	5	20	2	10	20	2	10	.5	5	10	100	10	50	5	25	20	.05	.02	.05	.001
percent																													

The analyses are by W.L. Campbell, A. Farley Jr., J. Frisken, Chris Heropoulos, E.E. Martinez, R.L. Miller, K.R. Murphy, S. Rickard, T.A. Roemer, Z. Stephenson and R. Vaughn in 1967 and 1968

Table 1

A. Rocks, Nolan-Hammond River area (fig. 2)

Map No	parts per million																			percent													
	Field No	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mn	Nb	Ni	Pb	Sb	Se	Sn	Sr	V	Y	Zn	Zr	Fe	Mg	Ca	Ti				
1	R82A	.15	L	L	L	120	L	L	L	15	100	7	20	L	500	L	20	L	10	15	L	L	200	L	30	34	100	3	1	.1	.2		
2	R82	L	L	L	B	B	B	B	B	B	B	B	B	L	500	L	15	L	6	6	B	B	B	B	L	B	B	B	B	B	B	B	
3	R83A	.2	L	L	100	1500	L	L	15	100	10	50	L	500	L	15	L	10	15	L	L	150	L	20	34	100	3	1	.1	.3			
4	B15G	.15	60	L	70	200	L	L	15	100	20	30	L	700	L	15	L	6	15	L	L	100	100	L	L	140	70	3	1	2	.3		
5	59 BX129	1.0	80	L	70	200	L	N	N	30	70	100	N	3000	N	70	30	70	15	N	L	200	N	20	57	100	7	1	.5	.2			
6	59 K149C	1.2	L	10	L	20	700	L	N	5	15	15	N	N	1000	N	30	10	20	7	N	N	70	N	10	35	70	3	.3	1	.1		
7	59 K148B	4.2	N	10	L	70	700	N	N	15	30	7	N	N	5000	N	30	N	5	15	N	N	100	N	L	61	70	5	.3	.5	.2		
8	59 K146	1.5	40	L	50	150	N	N	N	100	70	500	50	5	3000	N	70	200	3	10	N	500	100	N	150	49	50	15	1.5	10	.15		
9	59 B306	4.2	N	82	15	100	N	N	L	10	50	N	L	150	N	10	150	1000	L	N	200	10	N	N	L	20	7	.07	.7	.05			
10	R23	L	1200	L	70	200	L	L	L	10	L	10	20	L	300	L	7	L	500	5	L	B	15	L	7	110	30	2	.15	L	.1		
11	R23A	.1	1000	.08	15	L	L	L	L	10	50	300	L	200	L	7	500	1000	L	L	B	15	L	L	25	L	L	.1	.03	.5	.02		
12	R24	L	40	L	L	100	L	L	L	150	10	L	L	300	L	7	L	50	L	L	B	15	L	L	30	L	L	.2	1	L	.03		
13	R25	.2	L	.02	70	500	L	L	L	10	L	15	20	L	500	L	15	L	50	L	L	B	50	L	20	140	70	2	.5	L	.15		
14	R25A	L	80	L	L	L	L	L	L	20	5	L	L	300	L	5	L	50	L	L	B	10	L	L	L	25	L	.5	.02	L	.01		
15	R25C	.15	60	.02	L	100	L	L	L	10	70	15	L	L	300	L	5	L	45	L	L	B	L	L	L	50	L	.5	.03	L	.015		
16	R25D	.1	.02	70	300	L	L	L	L	10	20	L	L	3500	L	15	L	20	15	L	B	70	L	50	150	70	3	.3	.3	.15			
17	R25E	L	10	.04	L	L	L	L	L	10	20	5	20	L	300	L	2	L	45	L	L	B	10	L	L	33	L	L	.02	L	.01		
18	R25G	L	30	.02	20	150	L	L	L	30	15	L	L	500	L	15	L	20	10	L	B	50	L	15	45	50	2	.7	.05	.15			
19	R26A	L	40	L	10	100	L	L	L	50	10	20	L	200	L	10	L	20	L	L	B	15	L	L	L	L	L	.2	.03	L	.05		
20	R26B	L	L	70	300	15	L	L	L	10	30	20	20	L	1000	L	10	L	6	15	L	L	100	L	20	85	70	2	.3	L	.15		
21	R27B	.1	60	L	L	100	L	L	L	L	L	L	L	500	L	5	L	10	L	L	L	20	L	L	25	L	L	.5	.02	L	.02		
22	R27D	.4	20	L	L	L	L	L	L	L	L	L	L	5	50	L	700	L	5	L	L	100	20	L	10	30	L	.7	.3	.3	.03		
23	R27F	.4	60	97	20	200	L	L	L	10	L	20	L	500	L	10	L	15	10	L	L	70	L	5	50	30	2	.3	L	.15			
24	R27E	.5	10	L	L	10	L	L	L	L	L	L	L	30	20	L	10	L	40	L	L	20	L	5	35	L	.7	.3	.15	.05			
25	R28	2.9	240	.06	L	L	L	L	L	L	L	L	L	100	20	L	5	L	300	L	L	L	20	L	L	110	L	.5	.03	L	.15		
26	R29A	.25	20	L	70	150	L	L	L	10	20	15	L	L	500	L	15	L	35	10	L	L	50	L	10	45	50	1.5	.7	L	.2		
27	R30A	L	10	L	L	L	L	L	L	L	L	L	L	30	L	L	L	L	3	L	L	15	L	L	25	L	L	.03	L	.005			
28	R30	.1	60	L	20	L	L	L	L	15	20	L	L	500	L	15	L	15	5	L	L	50	L	10	40	50	1.5	.3	L	.15			
29	B43C1	.15	100	.04	50	200	L	L	L	L	L	L	L	30	500	L	10	150	1000	5	L	300	70	L	5	L	L	1	1	.15	.1		
30	B43B1	.15	100	.04	15	L	L	L	L	L	L	L	L	30	700	L	L	500	1000	L	L	L	30	L	L	L	L	L	.07	.02			
31	B43B	L	80	.03	100	500	L	L	L	10	70	20	30	L	1000	L	15	L	7000	15	L	300	150	L	50	70	100	3	.3	.05	.2		
32	B43A	.1	30	.05	100	500	L	L	L	10	15	15	30	L	1000	L	20	L	300	15	L	150	L	50	53	70	3	.3	.07	.15			
33	B39A4	L	15	.04	15	150	L	L	L	L	10	50	5	1500	L	5	L	10	10	L	L	70	L	5	L	L	L	.7	.1	L	.1		
34	B39A3	L	30	L	50	300	L	L	L	20	50	15	30	L	500	L	15	L	3	20	L	L	150	L	50	53	70	3	.3	L	.2		
35	B39A2	.25	80	L	50	300	L	L	L	15	20	10	20	L	L	20	L	10	10	15	L	L	100	L	15	43	50	3	.7	.7	.15		
36	B40B	.4	L	L	L	L	L	L	L	L	L	L	L	3000	20	L	L	L	15	L	L	20	L	L	25	L	L	.7	.03	.15	.002		
37	B40	L	40	L	10	L	L	L	L	L	L	L	L	5	L	L	10	L	5	L	L	L	L	L	L	L	L	.2	.03	L	.005		
38	B41B	L	10	L	50	L	L	L	L	L	L	L	L	10	20	L	500	L	5	L	L	30	L	L	25	L	L	.3	.05	L	.01		
39	B41A	.15	80	L	50	200	L	L	L	50	15	20	L	300	L	15	L	15	7	L	L	200	L	L	10	53	L	.6	.2	L	.15		
40	B42A	.5	60	L	200	300	L	L	L	10	100	20	30	L	1500	L	15	L	150	15	L	200	200	L	10	45	70	3	1	.3	.2		

Table 1

A. (cont'd) Rocks, Nolan-Hammond River area (fig. 2)

Map No	parts per million																												percent				
	Field	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Zn	La	Ce	Pr	Nd	Nb	Ni	Pb	Sb	Sc	Sn	Sr	Y	Zn	Zr	Fe	Mg	Ca	Ti		
41	B42	.65	80	L	L	160	300	L	L	15	50	50	50	L	300	L	2	15	L	20	L	10	L	L	200	L	30	30	30	2	.7	.07	.15
42	59	K95	L	L	160	L	10	70	N	N	N	150	15	50	N	N	5000	N	100	30	35	5	N	100	30	N	15	L	30	1.5	.3	1	.07
43	B38C	.1	50	.03	200	700	1	L	L	10	100	20	30	L	1000	L	15	L	150	L	30	L	200	150	L	30	70	100	3	1	2	.5	
44	R38D	L	200	.05	L	L	L	L	5	L	L	L	L	20	50	L	L	L	50	1000	L	L	L	L	20	L	L	L	L	.1	.1	.5	.03
45	B38E	.2	150	.06	L	L	L	L	L	L	L	L	L	10	70	L	1000	L	L	L	L	L	L	700	30	L	L	L	L	1.5	1	5	.002
46	B38G	.1	100	.04	L	L	L	L	L	L	L	L	L	10	50	L	300	L	2	L	L	L	L	150	30	L	L	65	L	.5	.3	.7	.003
47	B38H	.1	120	.04	L	L	L	L	L	L	L	L	L	10	150	L	300	L	L	L	L	L	L	100	20	L	L	L	L	.15	.3	.7	.005
48	B38J	L	20	.02	70	100	L	L	L	L	15	20	100	L	700	L	5	100	1000	5	L	700	70	L	L	5	70	L	3	1	2	.1	
49	B38A	.15	40	.03	100	150	L	5	L	15	50	20	20	3	300	L	20	20	20	15	L	L	100	L	L	7	65	70	3	.3	.15	.2	
50	B38A	.1	20	.03	10	L	L	L	L	10	70	7	20	3	2000	L	15	30	40	15	L	200	70	L	L	10	85	50	.7	1.5	5	.1	
51	B34A2	.15	30	L	10	100	L	L	L	15	15	5	L	200	300	L	15	700	10	15	L	L	L	100	L	20	50	50	2	.5	.1	.15	
52	B34A1	L	240	L	70	500	L	L	L	10	20	30	20	L	5000	L	15	L	25	20	L	L	L	100	L	50	30	70	3	.7	.2	.15	
53	B34B	.1	20	.02	20	700	L	L	L	L	10	L	L	500	L	7	L	8	5	L	L	L	L	L	70	L	5	25	L	.07	.3	.07	
54	B36A	.15	40	.05	70	250	L	L	L	L	50	10	L	L	150	L	10	L	20	10	L	L	L	L	100	L	10	50	50	1	.3	2	.1
55	B37D	L	60	.02	L	150	L	L	L	L	L	L	L	300	L	2	L	15	L	L	L	L	L	L	20	L	L	40	L	.7	.1	1	.005
56	B37C	.1	L	L	100	L	L	L	L	L	15	10	20	L	500	L	15	150	40	7	L	500	50	L	L	20	130	L	3	5	10	.1	
57	B37A	.1	20	L	50	100	L	L	L	15	L	10	L	L	500	L	10	L	25	7	L	300	30	L	L	75	L	.2	7	7	.03		
58	R59	.1	20	.02	70	200	1	L	L	10	30	150	30	L	1000	L	70	L	100	15	L	L	L	L	100	L	30	95	70	2	1	5	.2

# Rocks, Chandalar area (Fig. 3)

B.

Map No.	Field No.	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mb	Mn	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti	percent	
		parts per million																												percent		
59	B4A	.4	160	L	50	500	15	L	L	70	10	20	10	500	L	5	15	4	15	L	L	150	L	7	30	180	5	.7	1.5	.2		
60	B4B	.1	10	L	L	L	L	L	L	L	3	L	L	200	L	5	L	2	L	L	L	100	10	L	L	L	.5	.15	.07	.25		
61	R10D	.3	40	L	70	500	1	L	L	20	50	10	L	300	L	15	L	1	10	L	L	100	70	L	5	65	100	3	.7	.15	.3	
62	R21B	.35	30	L	30	1000	L	L	L	30	50	15	70	L	300	L	30	L	2	10	L	L	100	L	20	85	50	2	.5	L	.15	
63	60 B176	.2	1500	.4	L	N	N	N	L	L	N	L	10	L	N	L	15	L	1	N	N	N	L	N	N	L	.2	L	L	.002		
64	60 B180	.5	400	.7	L	20	N	N	N	L	3	N	L	L	N	L	20	15	N	N	N	L	N	N	L	1	L	L	L	.001		
65	B24A	.15	L	L	30	500	L	L	L	L	70	30	30	L	300	L	15	L	4	15	L	L	70	L	15	70	70	2	.7	.15	.3	
66	B48F	.25	20	L	70	1000	1	L	L	10	100	20	L	L	300	L	15	20	8	L	L	L	150	L	20	46	70	1.5	1	.15	.2	
67	B48C	.2	160	.06	70	200	1	L	L	L	20	15	50	L	300	L	20	30	6	L	L	150	30	L	15	25	L	1.5	.7	.7	.1	
68	B48	.1	30	.06	15	500	3	L	L	15	20	20	20	L	500	L	15	15	6	10	L	L	500	30	L	7	25	L	2	.7	.2	.15
69	B47	.1	20	.3	30	300	L	L	L	L	L	10	L	L	200	L	L	6	L	L	L	L	50	L	7	L	100	1.5	.3	.1	.1	
70	B46D	.15	200	.18	15	200	L	L	L	L	L	10	20	L	20	L	L	15	L	L	L	30	L	5	25	L	1.5	.07	L	.05		
71	B44J	6.0	200	188	L	L	L	L	L	L	10	L	L	200	L	L	700	100	L	L	L	15	L	L	250	L	1	.07	1	.015		
72	B45C	.5	800	20	L	L	L	L	L	15	L	5	L	L	300	L	50	L	20	L	L	20	L	50	90	L	1.5	.1	.1	.07		
73	B44C	.10	L	L	L	L	L	L	L	L	2	L	L	70	L	3	L	5	L	L	L	20	L	L	L	L	L	.05	.07	.003		
74	B11C	.2	20	L	15	1000	1	L	L	20	70	20	70	L	300	L	70	L	150	10	L	L	150	L	20	62	100	2	.7	.15	.2	
75	B11B	.5	20	L	L	L	L	L	L	L	70	7	L	L	1000	L	15	L	2	5	L	L	50	L	20	L	50	1.5	.7	10	.15	
76	B6A	.75	2000	.92	20	L	L	L	L	L	L	10	L	L	30	L	L	30	10	L	L	L	10	L	20	25	L	.7	L	L	.03	
77	B7A	L	600	.08	10	L	1	L	L	10	10	30	50	3	300	L	10	L	4	L	L	20	L	20	300	100	7	.03	L	.03		
78	B7F	72	800	L	10	L	L	15	L	15	L	200	30	5	150	L	7	700	60	5	L	L	20	L	10	160	L	.7	.1	L	.005	
79	B31B	.2	30	L	10	300	L	L	L	20	500	50	L	L	700	L	70	L	5	50	L	L	100	150	L	L	75	100	10	1.5	1.5	.7
80	B31	L	L	L	70	L	L	L	L	L	L	50	L	L	200	L	7	L	8	15	L	L	30	L	L	25	L	.02	.3	.5	.02	
81	R54A	.15	20	L	10	100	L	L	L	L	7	30	L	50	L	10	L	6	L	L	L	30	L	7	40	30	.7	.2	.05	.05		
82	R54C	.3	60	L	70	700	L	L	L	70	30	70	L	200	L	15	L	15	15	L	L	100	100	L	15	50	70	3	.7	L	.15	
83	R54A	.10	L	L	L	L	L	L	L	L	2	L	L	15	L	L	L	3	L	L	L	L	L	L	L	25	L	.07	.03	L	.015	
84	59 B577	N	20	.06	N	30	N	N	N	N	N	L	N	N	50	N	L	N	1	N	N	N	L	N	N	N	N	.2	L	L	.001	
85	R31C	.2	40	L	30	700	.15	L	L	10	100	10	20	L	300	L	15	10	6	15	L	L	100	100	L	20	65	100	3	1	.15	.2
86	R34	L	20	L	30	200	1	L	L	L	L	L	L	L	30	L	2	L	10	L	L	L	70	L	L	25	L	.5	.03	L	.015	
87	R35	L	10	L	30	1500	L	L	L	L	L	5	30	L	20	L	L	6	L	L	L	L	15	L	N	25	L	.1	.03	L	.03	
88	R43B	.15	20	L	30	300	L	L	L	L	30	15	20	L	200	L	15	L	4	15	L	L	70	L	5	65	50	3	1	.1	.2	
89	R44B	.25	20	L	50	1000	1	L	L	L	50	20	20	L	200	L	15	15	4	20	L	L	150	L	5	60	150	5	1	.05	.5	
90	59 B574	.3	20	.02	10	50	N	N	N	N	.5	L	N	N	70	N	2	N	2	N	N	N	10	N	N	L	L	5	.1	.05	.15	

# C. Rocks, Wiseman-Chandalar region (Fig. 1)

Map No.	parts per million																				percent										
	Field No.	Al	B	Ca	Co	Cr	Cu	La	Mo	Mn	Nb	Ni	Pb	Sb	Se	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti						
91	59 B353	B	B	20	150	3	L	L	5	70	L	3	30	100	L	20	B	L	7	30	L	L	70	B	200	2	.03	.03	.03		
92	60 R227	.5	40	L	20	300	15	L	5	50	10	20	N	20	20	500	15	N	300	200	L	20	57	150	1	.1	.3	.3			
93	R918	.4	L	L	100	300	L	L	L	10	70	50	20	L	15	300	2	15	L	120	150	L	20	50	70	3	1	1	.2		
94	R84	.25	L	L	15	100	L	L	L	15	L	15	L	L	15	L	L	L	L	30	L	20	L	L	L	1	.5	.3	.5		
95	R65A	.35	10	L	L	200	L	L	L	7	20	L	300	L	5	L	L	L	L	150	50	L	20	L	L	1	.5	.3	.015		
96	59 B315	19	40	.04	10	20	N	N	5	L	700	N	N	200	L	5	70	300	N	N	N	L	N	150	N	.7	1	2	L		
97	59 B473	.4	10	.04	20	20	N	N	N	L	15	N	N	30	L	L	L	N	N	N	L	N	N	L	N	N	.02	L	L		
98	59 B472	.3	20	.06	N	20	N	N	N	3	N	50	L	L	70	L	L	N	N	N	L	N	N	L	N	L	L	L	.007		
99	59 B465	.7	20	.02	2000	20	L	N	N	10	15	30	N	N	700	L	10	N	5	10	200	150	N	20	L	70	3	.1	.5	.3	
100	59 K191	L	160	L	L	N	N	N	L	10	50	N	7	150	15	10	N	4	5	N	N	30	N	N	L	N	3	.02	L	>1	
101	59 K192	1.4	60	L	L	20	L	N	N	L	30	L	N	N	300	N	15	10	2	20	N	1500	100	N	30	42	30	10	.5	.5	
102	59 B523	.4	L	.04	N	50	L	N	N	7	5	150	N	N	50	N	10	L	3	N	N	20	N	N	54	N	.5	.5	.2	.01	
103	59 B520	.8	30	.06	N	50	N	N	N	L	50	N	N	100	L	L	15	30	N	N	N	L	N	N	L	L	.15	.03	.3	.01	
104	60 B79C	1.0	B	B	50	100	L	L	5	30	30	L	L	200	15	20	10	B	10	L	30	50	N	30	B	100	1.5	.2	.7	.3	
105	60 R115	B	B	.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
106	60 B321	2	.30	.04	L	100	N	N	N	7	30	30	N	15	100	L	30	30	2	10	N	100	50	N	15	L	100	3	1.5	.5	.2
107	60 B292	1.2	10	.08	20	300	L	N	N	20	100	500	N	N	700	10	30	200	4	20	N	N	100	N	15	L	200	5	.7	.15	.5
108	60 B292	.8	10	.1	10	150	N	N	N	30	50	10	N	N	300	L	30	10	2	7	N	N	50	N	L	27	70	3	.5	1	.15
109	R46A	1.1	200	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	15	L	N	100	L	1	20	>20	L
110	60 B97E	N	B	.08	B	B	B	B	B	B	B	B	B	B	B	B	B	B	N	B	B	B	B	B	N	B	B	B	B	B	B
111	60 B97E	1.2	10	.56	N	30	N	N	N	L	2	N	N	30	L	N	100	2	N	N	N	15	L	N	L	N	.2	.03	.2	.007	
112	R159B	.37	160	L	50	200	L	L	L	20	15	L	L	500	L	10	L	5	L	L	200	70	L	7	L	L	3	7	20	.07	
113	R158A	L	L	L	L	L	L	L	L	L	L	L	L	300	L	L	L	4	7	L	L	20	L	L	L	L	.1	.1	.5	.01	
114	60 B211	.2	300	.08	N	L	N	N	N	L	3	N	N	L	L	N	L	L	3	N	N	N	L	N	N	L	.7	L	L	.002	
115	59 B365	1.4	10	.04	30	70	N	N	N	15	100	500	N	N	300	L	50	L	20	20	N	N	100	N	15	64	70	5	1.5	.5	.5
116	59 B559	.8	40	.04	N	30	N	N	N	5	7	5	N	N	30	L	15	15	1	N	N	N	10	N	N	L	20	1	.1	L	.15
117	59 B556	.8	70	.02	N	20	2	N	N	7	10	15	N	N	300	N	30	20	2	N	N	300	20	N	78	L	2	.5	.3	.007	
118	60 B510	1.3	300	.36	L	20	L	L	N	N	L	10	N	N	70	L	2	20	B	N	N	15	N	N	L	L	5	.03	.3	.02	
119	R173A	L	L	L	100	300	L	L	L	15	70	20	30	L	200	L	15	20	5	L	L	100	L	20	60	150	2	.3	.1	.3	
120	R173	.25	10	.1	50	300	L	L	L	30	20	L	L	200	L	150	10	10	L	L	200	70	L	20	L	100	1.5	.3	.7	.15	
121	R170B	.1	20	.02	50	100	L	L	L	50	15	L	L	300	L	50	L	10	15	L	L	200	L	15	50	150	3	.7	.15	.3	
122	R171	L	10	.03	10	100	L	L	L	10	L	7	50	L	200	L	L	2	L	L	L	30	L	L	L	L	.2	.07	L	.015	
123	R170	L	L	L	L	L	L	L	L	L	L	L	10	20	L	30	L	L	2	L	L	L	L	L	L	L	.1	.02	L	.003	
124	R158	L	80	L	L	L	L	L	L	L	500	70	L	L	70	L	L	L	1	L	L	30	L	L	104	L	.15	L	L	.007	
125	R168A	.2	30	L	100	500	L	L	L	20	L	70	100	L	500	20	100	10	6	15	L	3000	200	L	20	L	3	.15	.07	10	
126	R168D	L	160	L	50	700	L	L	L	50	15	20	L	300	L	15	L	6	7	L	L	150	L	15	25	70	1.5	.2	.05	.15	
127	R166A	L	L	L	20	L	L	L	L	L	L	15	30	L	300	L	7	L	4	L	L	200	20	L	5	L	.2	.03	.15	.03	
128	R166C	L	40	L	L	L	L	L	L	L	L	7	30	L	100	L	5	L	2	L	L	20	L	L	L	L	.1	.03	L	.005	
129	R167B	L	15	.02	10	L	L	L	L	L	L	7	20	L	150	L	2	L	2	L	L	20	L	L	L	L	.2	.7	.07	.03	
130	R167C	L	15	L	70	L	L	L	L	L	70	7	30	L	300	L	2	L	4	L	L	L	30	L	L	L	.7	.03	.05	.02	
131	R167E	L	10	.02	L	L	L	L	L	L	L	7	20	L	70	L	L	L	2	L	L	L	30	L	5	L	.5	.02	L	.015	
132	R167	L	10	L	L	L	L	L	L	L	150	20	30	L	150	L	5	L	3	L	L	300	20	L	L	L	.3	.07	.15	.007	

Table 2

A. Soils, Nolan-Hammoria River area (fig. 2)

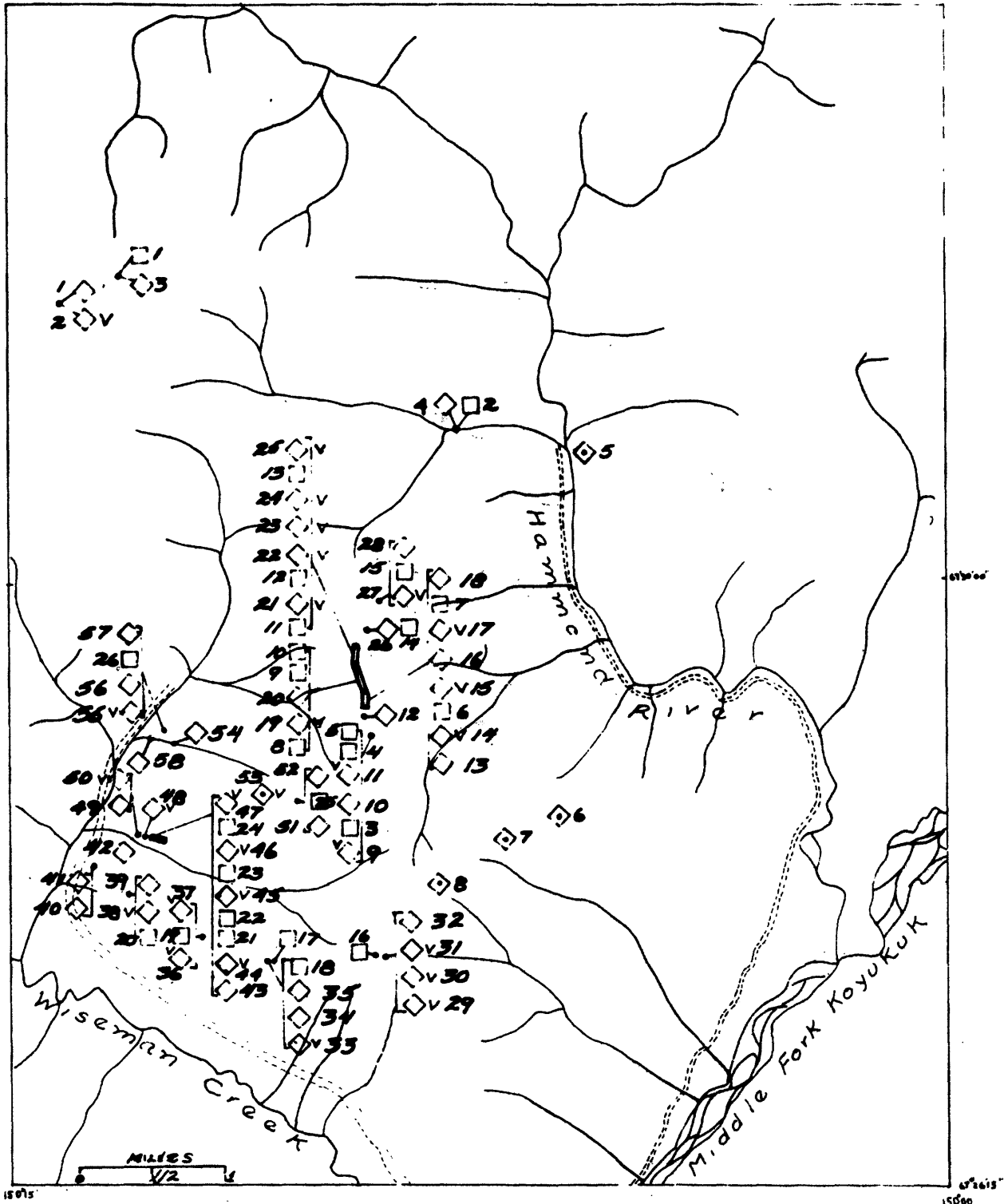
Map No.	parts per million																										percent					
	Field No.	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mb	Mn	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti		
1	R83D	.4	30	L	100	100	I	L	L	L	120	20	30	L	100	L	3	500	6	15	L	L	200	L	15	60	100	3	.7	L	.3	
2	B15D	.3	30	L	50	300	L	L	L	15	70	20	30	L	100	L	15	L	5	15	L	100	100	L	20	110	100	3	.1	.7	.3	
3	R23T	.1	80	L	150	700	I	L	L	20	70	10	50	L	500	L	20	10	100	15	L	B	70	L	20	130	200	3	.3	L	.3	
4	R23R	.15	20	L	150	300	L	5	L	20	10	20	30	L	100	L	20	L	700	15	L	B	70	L	20	130	50	7	.3	.05	.2	
5	R23S	.1	800	.02	150	300	L	5	L	20	70	15	20	L	100	L	20	L	300	15	L	B	50	L	20	190	70	3	.2	.05	.2	
6	R25B	.2	30	L	100	100	I	L	L	15	L	20	30	2	700	L	.15	10	45	20	L	B	100	L	20	170	100	3	.7	L	.5	
7	R25F	.1	40	.03	70	700	I	L	L	L	L	50	50	L	100	L	15	10	35	15	L	B	100	L	30	180	70	3	.7	.07	.3	
8	R26	L	20	L	50	200	I	L	L	10	10	20	L	L	300	L	15	10	6	10	L	B	50	L	20	110	50	3	.3	.05	.15	
9	R26C	L	60	.04	100	500	15	L	L	L	30	30	30	3	300	L	.15	20	30	15	L	L	150	L	30	85	70	2	.3	L	.2	
10	R26D	.1	L	L	200	500	15	L	L	20	70	20	50	2	150	L	20	10	15	20	L	L	150	L	30	160	100	5	.5	L	.5	
11	R27A	.15	40	L	70	300	10	L	L	15	70	30	50	L	100	L	15	10	25	10	L	L	100	L	30	130	70	3	.3	L	.15	
12	R27C	.15	L	L	70	700	I	L	L	15	30	15	30	L	150	L	15	L	8	15	L	L	100	L	30	110	70	3	.7	.07	.2	
13	R27F	.45	20	L	50	300	I	L	L	10	70	20	30	L	1000	L	15	L	10	15	L	L	50	L	15	38	70	3	.7	.05	.2	
14	R29B	.3	60	L	70	150	15	L	L	10	70	20	20	L	1000	L	15	10	20	15	L	L	70	L	20	58	100	5	1	.07	.03	
15	R30B	.15	80	L	30	100	I	L	L	15	30	30	L	L	1500	L	.10	L	20	15	L	L	50	L	30	48	100	1.5	.3	L	.2	
16	B43E	.1	10	.02	100	500	15	L	L	15	70	30	50	L	1000	L	15	L	300	15	L	100	100	L	30	67	100	5	.5	.05	.3	
17	B39	.25	10	L	70	500	L	L	L	20	50	50	20	L	1500	L	70	L	6	20	L	L	200	L	30	30	70	3	.7	.15	.2	
18	B39A	.25	40	L	150	300	I	L	L	10	30	30	30	L	1500	L	20	L	4	20	L	L	150	L	50	55	100	2	.7	.3	.2	
19	B40A	L	L	L	100	300	L	L	L	10	30	10	L	L	500	L	15	L	15	10	L	L	100	L	20	25	50	1.5	.3	L	.15	
20	B41	.5	120	L	100	200	L	L	L	L	70	20	30	L	300	L	10	L	20	10	L	L	200	L	30	36	70	3	.3	.07	.2	
21	B38D	.2	160	L	100	300	L	L	L	15	150	30	30	L	1500	L	20	L	200	20	L	L	150	150	L	30	110	150	3	1.0	2	.5
22	B38E	.1	100	L	70	500	L	L	L	15	100	30	30	L	1000	L	15	L	300	30	L	L	200	150	L	15	110	100	5	.7	.7	.5
23	B38G	L	80	L	100	300	L	L	L	15	150	20	150	L	1000	L	15	L	1500	20	L	L	200	200	L	15	100	100	3	.7	.7	.5
24	B38H	.1	160	.02	100	700	L	L	L	50	150	20	30	L	2000	L	15	10	2000	15	L	L	100	150	L	30	1	30	3	.7	.5	.5
25	B34A	L	40	.02	70	1000	L	L	L	L	70	20	20	L	300	L	15	L	8	15	L	L	200	L	5	80	150	3	.7	.3	.7	
26	B37B	L	10	.04	150	500	L	L	L	L	15	10	L	L	300	L	10	L	100	20	L	L	100	L	7	90	150	1.5	.3	.07	.3	

C. Soils, Wiseman-Chandalar region (fig. 1)

Map No	Field No	Al	As	Ag	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Ca	La	Mo	Mn	Nb	Ni	Pb	Sb	Se	Sn	Sr	Y	W	Y	Zr	Fe	Mg	Ca	Ti
		parts per million																												percent	
69	B350	.4	60	<	<	<	<	<	<	1.5	7	50	15	50	30	<	30	300	<	10	<	15	<	100	<	500	7	.1	.05	.15	
70	R84A	.3	10	<	150	500	1	<	<	15	70	15	30	<	700	<	15	20	3	15	<	200	150	<	30	95	100	3	1	1	.3
71	R259	.6	B	<	10	500	5	<	B	<	10	100	150	5	1000	B	10	100	B	<	70	30	<	20	B	300	1.5	.2	.1	.2	
72	R158	<	40	<	50	500	1.5	<	<	20	15	<	<	300	<	15	<	5	30	<	100	70	<	50	30	150	2	.7	.7	.15	
73	R173B	.4	8000	.26	30	300	1	<	<	70	15	50	<	300	<	20	<	8	15	<	<	70	<	10	80	150	2	.3	.3	.2	
74	R167A	.15	20	<	100	1000	1	<	<	15	<	50	70	<	300	20	20	30	4	15	<	100	300	<	30	50	200	3	1	.15	.5
75	R167D	.4	40	.04	<	700	<	<	<	<	<	30	30	<	300	<	15	20	8	10	<	150	200	<	30	58	100	2	.7	.15	.3



**U.S. GEOLOGICAL SURVEY  
OPEN FILE MAP**



*Fig 2 Rock and soil sample localities  
in Nolan-Hammond River area*

- ◇ V Rock sample; V indicates vein sample*
- Soil sample*

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.