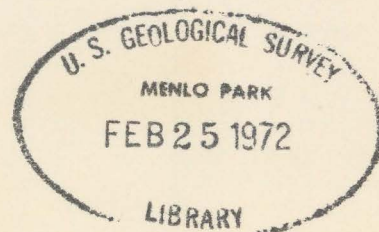


Chemical and radiometric analyses of 15 soil samples from the Lion 1 mine, Fall Line County, South Dakota.

Table 18. Chemical and radiometric analyses of 15 soil samples from the Lion 1 mine

Sample Number	U ppm	eU 10-3%	As ppm	Cu ppm	Fe %	Mn %	Pb ppm	pH	TiO ₂ %	V %	Zn ppm	Remarks
D 93027	80 [✓]	7 [✓]	30 [✓]	40 [✓]	1.70 [✓]	0.30 [✓]	< 10 [✓]	8.2 [✓]	0.5 [✓]	0.10 [✓]	20 [✓]	Sand, brown, adjacent to samples numbered D 93025, D 201608, and D 201609
D 201610	90 [✓]	9 [✓]	30 [✓]	<20 [✓]	1.00 [✓]	0.20 [✓]				0.15 [✓]	<20 [✓]	
D 201611		2 [✓]	10 [✓]	<20 [✓]	0.60 [✓]	0.07 [✓]				0.15 [✓]	20 [✓]	
D 93032	30 [✓]	4 [✓]	10 [✓]	40 [✓]	1.10 [✓]	0.40 [✓]	< 10 [✓]	7.8 [✓]	<0.5 [✓]	0.06 [✓]	20 [✓]	Sand, brown, in joint containing roots in contact with black colored zone, samples D93031, D201630 and D201631.
D 201632	24 [✓]	5 [✓]	< 10 [✓]	<20 [✓]	0.40 [✓]	0.20 [✓]				0.10 [✓]	<20 [✓]	
D 201633		2 [✓]	10 [✓]	<20 [✓]	0.40 [✓]	0.20 [✓]				0.06 [✓]	<20 [✓]	
D 93034		3 [✓]	20 [✓]	100 [✓]	1.50 [✓]	0.75 [✓]	10 [✓]	7.5 [✓]	0.5 [✓]	0.10 [✓]	40 [✓]	Sand, brown, in joint containing roots adjacent to black colored joint face, samples D93033, D201637, and D201638
D 201639	70 [✓]	9 [✓]	40 [✓]	<20 [✓]	0.90 [✓]	0.60 [✓]				0.12 [✓]	20 [✓]	
D 201640		5 [✓]	10 [✓]	<20 [✓]	0.30 [✓]	0.60 [✓]				0.05 [✓]	<20 [✓]	
D 201643		1 [✓]	20 [✓]	<20 [✓]	0.40 [✓]	0.15 [✓]				0.05 [✓]	<20 [✓]	Sand, brown, in joint containing roots adjacent to black colored joint face, samples D201646, D201647, and D201648
D 201644	21 [✓]	1 [✓]	10 [✓]	<20 [✓]	0.40 [✓]	0.10 [✓]				0.01 [✓]	<20 [✓]	
D 201645		1 [✓]	10 [✓]	<20 [✓]	0.40 [✓]	0.07 [✓]				0.03 [✓]	20 [✓]	
D 201696		2 [✓]	10 [✓]	<20 [✓]	0.60 [✓]	0.05 [✓]				0.03 [✓]	<20 [✓]	Sand, light brown, six inches thick along joint samples D 201699, D 201700, and D 201701. Roots are present in sand.
D 201697	10 [✓]	1 [✓]	40 [✓]	<20 [✓]	0.70 [✓]	0.08 [✓]				0.06 [✓]	<20 [✓]	
D 201698		2 [✓]	40 [✓]	<20 [✓]	0.90 [✓]	0.10 [✓]				0.06 [✓]	50 [✓]	



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