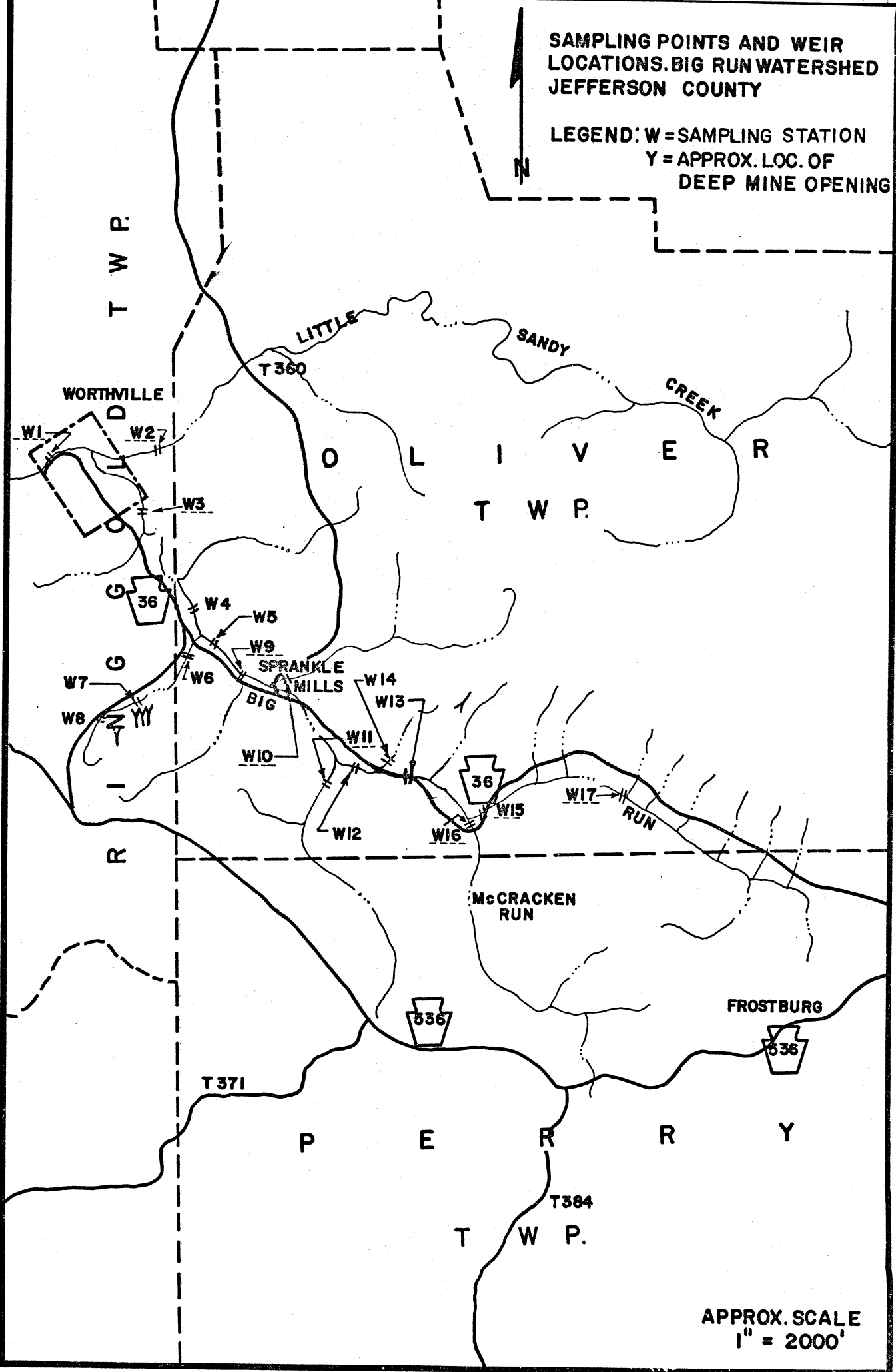


SAMPLING DATA

**SAMPLING POINTS AND WEIR LOCATIONS. BIG RUN WATERSHED
JEFFERSON COUNTY**

**LEGEND: W = SAMPLING STATION
Y = APPROX. LOC. OF
DEEP MINE OPENING**



**APPROX. SCALE
1" = 2000'**

AVERAGE DATA RESULTS

<u>SAMPLE STATION NO.</u> <u>WEIR NO.</u>	<u>AVERAGE FLOW</u> <u>GPM</u>	<u>pH</u>	<u>ACIDITY</u> <u>LBS/D</u>	<u>ALKALINITY</u> <u>LBS/D</u>	<u>TOTAL IRON</u> <u>LBS/D</u>	<u>SULPHATES</u> <u>LBS/D</u>
1	52,163	6.53	5,296	6,824	186.75	42,608
2	33,353	6.70	1,686	3,188	92.75	28,731
3	14,025	6.68	921	1,647	43.00	10,858
4	12,300	6.90	1,044	2,331	57.75	10,357
5	8,563	6.95	612	1,887	24.50	5,356
6	1,319	3.48	867	0	22.50	2,869
7	16	3.60	14	0	0.58	52
8	125	3.00	193	0	9.50	576
9	971	6.98	45	122	3.75	751
10	2,513	6.60	218	390	42.50	865
11	3,006	6.85	227	478	64.75	2,274
12	642	6.00	172	150	11.25	717
13	2,315	7.48	87	1,044	35.25	1,486
14	83	4.28	35	0	0.89	149
15	1,584	7.05	62	249	28.00	803
16	2,780	7.15	192	1,394	42.00	2,116
17	1,538	7.18	116	848	24.35	1,418

SAMPLE STATION <u>1</u> Weir <u>1</u>										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-02-72	47,650	6.3	- - -	- - -	8.	4574	.4	229	100	57,180
3-23-72	68,000	6.3	14	11,424	10.0	8160	0.27	220	47	38,352
5-05-72	52,500	6.6	4.0	2,520	10.0	6300	0.32	201	51	32,130
6-08-72	40,500	6.9	4.0	1,944	17.0	8262	0.20	97	88	42,768

SAMPLE STATION <u>2</u> Weir <u>2</u>										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	31,500	6.3	- - -	- - -	6	2268	.2	76	100	37,800
3-23-72	40,000	7.1	5.0	2,400	8.0	3840	0.21	101	48	23,040
5-05-72	35,910	6.4	4.0	1,723	6.0	2586	0.32	138	56	24,131
6-08-72	26,000	7.0	3.0	936	13.0	4056	0.18	56	96	29,952

SAMPLE STATION <u>3</u> Weir <u>3</u>										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	15,000	6.6	- - -	- - -	.24	43	.4	72	75	13,500
3-23-72	20,000	6.4	7.0	1680	9.0	2160	0.21	50	45	10,800
5-05-72	12,000	6.4	6.0	864	13	1872	0.19	27	54	7,776
6-8-72	9,100	7.3	2.0	218	23	2512	0.21	23	104	11,356

SAMPLE STATION 4 Weir 4										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	13,500	6.7	- - -	- - -	18	2916	.3	48	85	13,770
3-23-72	17,000	7.3	9.0	1836	16.0	3264	0.23	47	45	9,180
5-05-72	11,500	6.7	5.0	690	9.0	1242	0.29	40	55	7,590
6-08-72	7,200	6.9	7.0	605	22.0	1901	1.11	96	126	10,886

SAMPLE STATION 5 Weir 5										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	6,750	6.9	- - -	- - -	16.	1296	.1	8	75	6075
2-23-72	13,000	6.5	8.0	1248	14.0	2184	0.23	36	41	6396
5-05-72	10,000	6.8	4.0	480	15	1800	0.34	41	44	5280
6-08-72	4,500	7.6	2.0	108	42.0	2268	0.24	13	68	3672

SAMPLE STATION 6 Weir 6										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	1,200	2.8	56	806	0	0	1.9	27	75	1080
3-23-72	2,000	4.0	42	1008	0	0	0.30	7	176	4224
5-05-72	1,125	3.6	38	513	0	0	0.45	6	246	3321
6-08-72	950	3.5	100	1140	0	0	4.4	50	250	2850

SAMPLE STATION 7 Weir 7										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	3.49	2.6	72	3	0	0	5.5	.2	425	18
3-23-72	29.0	3.5	78	27	0	0	1.92	1	236	82
5-05-72	29.0	3.3	72	25	0	0	2.20	1	290	101
6-08-72	1.27	5.0	80	1	4.0	.1	6.32	.1	410	6

SAMPLE STATION 8 Weir 8										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	90	2.2	90	97	0	0	7.8	8	525	567
3-23-72	136	3.4	123	201	0	0	2.18	4	295	481
5-05-72	136	3.1	128	209	0	0	3.26	5	480	783
6-08-72	136	3.3	162	264	0	0	13.1	21	290	473

SAMPLE STATION 9 Weir 9										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	308	5.7	- - -	- - -	10	37	.4	1	85	314
3-23-72	1,500	7.5	4.0	72	9.0	162	0.21	4	46	828
5-05-72	1,125	7.2	3.0	41	8.0	108	0.61	8	45	608
6-08-72	950	7.5	2.0	23	16.0	182	0.16	2	110	1254

SAMPLE STATION <u>10 Weir 10</u>										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	900	6.1	- - -	- - -	18	194	.1	1	40	432
3-23-72	3,000	6.4	12	432	10	360	.24	9	24	864
5-08-72	4,800	6.7	3.0	173	11	634	2.7	156	27	1555
6-09-72	1,350	7.2	3.0	49	23	373	0.23	4	37.5	608

SAMPLE STATION <u>11 Weir 11</u>										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-17-72	675	6.2	- - -	- - -	16.	130	.1	1	95	770
3-23-72	4,000	7.2	6.0	288	14.0	672	0.52	25	45	2160
5-08-72	6,000	6.5	5.0	360	10.0	720	3.2	230	69	4968
6-09-72	1,350	7.5	2.0	32	24.0	389	0.20	3	74	1199

SAMPLE STATION <u>12 Weir 12</u>										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-18-72	417.6	6.4	- - -	- - -	38	190	.3	2	75	376
3-23-72	900	4.5	40	432	- - -	- - -	0.29	3	132	1426
5-08-72	900	5.5	7.0	76	3.0	32	3.6	39	74	799
6-09-72	350	7.6	2.0	8	54.0	227	0.27	1	63	265

SAMPLE STATION 13 Weir 13										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-18-72	360	6.9	- - -	- - -	26	112	.2	1	75	324
3-23-72	1,200	8.0	2.0	29	20	288	.25	4	39	562
5-08-72	4,000	7.3	3.0	144	25	1200	2.6	125	48	2304
6-09-72	3,700	7.7	2.0	89	58	2575	0.24	11	62	2753

SAMPLE STATION 14 Weir 14										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-18-72	40.5	3.8	28	7	- - -	- - -	.3	.1	145	34
3-23-72	136	4.5	49	80	0	- - -	.26	.4	144	235
5-08-72	136	4.2	28	46	- - -	- - -	2.1	3	176	287
6-09-72	19.7	4.6	27	6	1.0	.2	0.21	.05	172	41

SAMPLE STATION 15 Weir 15										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-18-72	237	6.4	- - -	- - -	14	40	.3	1	70	199
3-23-72	1,000	7.4	4	48	7	84	0.26	3	36	432
5-08-72	3,200	7.0	3.0	115	9	346	2.7	104	37.5	1440
6-09-72	1,900	7.4	1.0	23	23.0	524	0.16	4	50	1140

SAMPLE STATION 16 Weir 16										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-18-72	120	6.7	- - -	- - -	38	55	.6	1	70	101
3-23-72	3,000	6.8	9.0	324	21.0	756	0.26	9	50	1800
5-08-72	5,000	7.2	3.0	180	35	2100	2.4	144	59	3540
6-09-72	3,000	7.9	2.0	72	74.0	2664	0.39	14	84	3024

SAMPLE STATION 17 Weir 17										
DATE	FLOW GPM	pH	ACIDITY		ALKALINITY		TOTAL IRON		SULPHATES	
			ppm	lbs/d	ppm	lbs/d	ppm	lbs/d	ppm	lbs/d
2-18-72	150	6.9	- - -	- - -	42	76	.2	.4	95	171
3-23-72	2,000	6.8	7.0	168	34.0	816	0.23	6	56	1344
5-8-72	2,500	7.3	3.0	90	41	1230	2.7	81	69	2070
6-9-72	1,500	7.7	5.0	90	76.0	1368	0.55	10	116	2088