

MONITORING STATIONS

Main Stream Monitoring Stations

Monitoring Station SC10

This monitoring station on Stony Creek is located on the north side of Pa. State Route 31. SC11R1, SC14L1, SCR3, and SCR2 are the unnamed tributaries contributing to the analysis of this station. The following are the averages of the pollution load and flow of Stony Creek at this monitoring station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 on Stony Creek north of Hooversville, is also given. The location of this station is shown on drawing 7119-6.

	<u>Averages</u>	<u>Percent of</u> <u>Monitoring Station SC1</u>
pH	6.7	
Net Cold Acidity	0 PPD	0%
Net Hot Acidity	0 PPD	0%
Ferrous Iron	11 PPD	1.49%
Total Iron	31 PPD	.70%
Sulfate	2,291 PPD	1.19%
Hardness	6,332 PPD	3.08%
Flow	6,197,760 GPD	3.88%

STONY CREEK WATERSHED

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Water Sampling

Data Monitoring Stations

Station No. SC10

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-04-72	30,132	6.3	11	3,984.00	-	-	26	9,417.00
05-03-72	3,321	6.6	13	518.94	-	-	34	1,357.00
06-12-72	284	7.6	3	10.24	-	-	80	273.09
07-10-72	2,196	7.2	7	184.77	-	-	62	1,637.00
08-21-72	748	7.7	13	122.51	-	-	80	753.89
09-18-72	248	6.7	15	44.71	-	-	83	247.42
10-10-72	297	6.3	-	-	-	-	80	285.60
11-13-72	5,318	5.7	-	-	-	-	51	3,260.00
12-11-72	2,500	5.8	-	-	-	-	32	961.60
01-10-73	1,600	7.0	2	38.46	-	-	56	1,076.90
02-08-73	1,800	7.2	3	64.90	-	-	33	714.00
03-05-73	3,200	6.4	8	307.71	-	-	60	2,308.00
Average	4,304	6.7	8.33	586.25	-	-	56.42	1,858.00

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.16	57.95	.21	76.06	33.00	11,952.00	84	30,424.00
.03	1.20	.34	13.57	36.50	14.57	116	4,631.00
.02	.07	.50	1.71	144.00	491.57	252	860.25
.08	2.11	.47	12.41	60.00	1,584.00	156	4,118.00
.10	.94	.54	5.09	176.00	1,659.00	224	2,111.00
.16	.48	1.18	3.52	226.00	673.70	252	751.20
.10	.36	1.80	6.43	128.00	456.90	216	771.10
.08	5.11	.52	33.24	56.00	3,580.00	152	9,715.00
.08	2.40	.78	23.44	62.00	1,863.00	120	3,606.00
.10	1.92	1.50	28.85	106.00	2,038.40	-	-
.70	15.15	1.50	32.46	34.00	736.00	-	-
1.30	50.00	3.60	138.47	26.00	1,000.00	-	-
.24	11.47	1.08	31.27	90.63	2,291.00	174.67	6,332.00

Main Stream Monitoring Stations (contd.)

Monitoring Station SC9

This monitoring station is located on Stony Creek east of L.R. 55053. The tributaries which contribute to the analysis of this station are SC13L2 unnamed, SC13L1 Reitz Creek, SC12L2 Downey Run, SCR1 unnamed, SC12L1 unnamed, SC9R1 Glades Creek, SC8R3 unnamed and SC8R2 unnamed along with those contributing to Monitoring Station SC10. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 on Stony Creek north of Hooversville, is also given. The location of this station can be found on drawing 7119-6.

	<u>Averages</u>	<u>Percent of Monitoring Station SC1</u>
pH	6.4	
Net Cold Acidity	0 PPD	0%
Net Hot Acidity	0 PPD	0%
Ferrous Iron	58 PPD	7.56%
Total Iron	208 PPD	4.65%
Sulfate	31,506 PPD	16.36%
Hardness	34,605 PPD	16.81%
Flow	43,904,160 GPD	27.51%

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Water Sampling Data

Monitoring Stations

Station No. SC9

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-04-72	202,500	6.5	6	14,604.00	-	-	12	29,209.00
05-03-72	21,290	6.2	11	2,815.00	-	-	11	2,815.00
06-13-72	5,363	7.1	3	193.39	-	-	23	1,483.00
07-10-72	18,761	7.6	5	1,128.00	-	-	19	4,285.00
08-21-72	4,428	6.4	15	798.00	-	-	42	2,235.00
09-13-72	1,778	6.7	18	384.69	-	-	43	918.98
10-10-72	2,948	6.1	-	-	40	1,417.00	37	1,311.00
11-13-72	19,699	5.6	-	-	-	-	25	5,920.00
12-11-72	20,000	5.4	-	-	4	961.60	8	1,923.00
01-10-73	7,100	6.4	2	170.68	-	-	10	853.40
02-08-73	22,000	6.7	2	529.00	-	-	10	2,644.00
03-05-73	40,000	6.4	6	2,885.00	-	-	11	5,289.00
Average	30,489	6.4	7.56	2,612.00	14.67	792.87	20.92	4,907.00

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.13	316.43	.20	486.81	47	114,400	72	175,252
.03	7.68	.36	92.13	55	14,075	88	22,520
.06	3.87	.33	21.27	116	7,478	152	9,798
.06	13.53	.45	101.48	84	13,942	124	27,963
.03	1.60	.30	15.97	216	11,497	200	10,645
.06	1.28	6.16	131.65	220	4,702	280	5,984
.06	2.13	.21	7.44	120	4,252	164	5,811
.02	4.74	.39	92.34	46	10,892	104	24,625
.10	24.04	2.76	663.50	72	17,308	120	28,848
.50	42.67	1.30	110.94	106	9,046	-	-
.50	132.00	.90	238.00	62	16,395	-	-
.30	144.24	1.10	528.88	48	23,078	-	-
.15	57.85	1.21	207.53	99.33	31,506	144.89	34,605

Main Stream Monitoring Stations (contd.)

Monitoring Station SC8

This monitoring station on Stony Creek is located south of the bridge crossed upon entering the town of Shanksville on L.R. 55160. The tributaries which influence the analysis of this station are SC11L2 Glade Church Run, SC8R1 unnamed, SC11L1 unnamed, and SC10L1 Rhoads Creek along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value, compared to the corresponding value at Monitoring Station SC1 on Stony Creek north of Hooversville, is also given. The location of this station can be found on drawing 7119-6.

	<u>Averages</u>	<u>Percent of</u> <u>Monitoring Station SC1</u>
pH	6.2	
Net Cold Acidity	0 PPD	0%
Net Hot Acidity	0 PPD	0%
Ferrous Iron	101 PPD	13.17%
Total Iron	263 PPD	5.89%
Sulfate	63,875 PPD	33.16%
Hardness	77,415 PPD	37.60%
Flow	77,771,520 GPD	48.73%

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Water Sampling Data

Monitoring Stations

Station No. SC8

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-04-72	134,685	6.0	4	6,476.00	-	-	4	6,476
05-02-72	-	6.60	5	-	-	-	5	-
06-19-72	24,572	7.40	2	590.71	-	-	12	3,544
07-18-72	39,677	7.10	7	3,338.00	-	-	15	7,154
08-21-72	10,949	7.50	13	1,711.00	-	-	17	2,237
09-13-72	9,189	6.55	9	994.07	-	-	15	1,657
10-10-72	38,808	5.8	-	-	3	1,399	12	5,598
11-13-72	35,705	5.4	-	-	-	-	10	4,292
12-11-72	40,000	5.1	-	-	3	1,442	14	6,731
01-10-73	32,500	5.8	2	781.00	-	-	4	1,563
02-08-73	66,000	6.3	2	1,587.00	-	-	4	3,173
03-05-73	162,000	5.2	7	13,631.00	-	-	3	5,842
Average	54,008	6.2	5.67	3,639.00	2	947	9.58	4,388

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.06	97.13	.18	291.40	68	110,086	116	187,794
.08	-	.26	-	80	-	124	-
.06	17.72	.30	88.61	160	47,257	168	49,620
.02	9.54	.20	95.38	176	83,937	188	89,660
.03	3.95	.32	42.11	286	37,640	256	33,691
.03	3.31	.20	22.09	290	32,031	296	32,694
.03	14.00	.14	65.31	172	80,233	256	119,417
.03	12.88	.30	128.75	106	45,492	136	58,367
.03	14.42	.50	240.40	78	37,502	100	48,080
.30	117.20	.40	156.30	100	39,065	-	-
.30	238.00	.50	397.00	62	49,186	-	-
.30	584.17	.70	1,363.00	7.2	140,201	-	-
.11	101.12	.33	262.76	137.50	63,875	182.22	77,415

Main Stream Monitoring Stations (contd.)

Monitoring Station SC7

This monitoring station on Stony Creek is located north of the covered bridge on Route T565. The tributaries which influence the analysis of this station are SC7R1 Schrock Run, SC9L1 unnamed, and SC8L1 unnamed, along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 north of Hooversville, is also given. The location of this station can be found on drawing 7119-6.

	<u>Averages</u>	<u>Percent of Monitoring Station SC1</u>
pH	6.3	
Net Cold Acidity	0 PPD	0%
Net Hot Acidity	0 PPD	0%
Ferrous Iron	120 PPD	15.65%
Total Iron	553 PPD	12.38%
Sulfate	67,427 PPD	35.00%
Hardness	78,408 PPD	38.08%
Flow	84,643,200 GPD	53.03%

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Monitoring Stations

Station No. SC7

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-04-72	173,520	7.1	4	8,343	-	-	14	29,200
05-02-72	47,714	6.0	5	2,868	-	-	4	2,294
06-13-72	19,830	6.5	5	1,192	-	-	10	2,384
07-18-72	25,659	7.3	7	2,159	-	-	12	3,701
08-16-72	9,657	7.7	11	1,277	-	-	23	2,670
09-13-72	9,432	6.5	11	1,247	-	-	15	1,701
10-10-72	24,840	6.0	-	-	8	2,389	9	2,687
11-13-72	52,200	5.4	-	-	6	3,765	9	5,647
12-11-72	97,000	5.0	-	-	3	3,498	4	4,664
01-09-73	39,500	6.0	2	950	-	-	4	1,899
02-08-73	75,000	6.4	2	1,803	-	-	6	5,409
03-05-73	131,000	6.2	4	6,299	-	-	7	11,022
Average	58,780	6.3	5.67	2,904	5.67	3,218	9.75	6,107

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.01	20.86	.19	396.29	58	120,971	92	191,885
.10	57.35	.75	430.14	90	51,617	132	75,705
.02	4.77	.85	202.60	156	37,184	192	45,764
.02	6.16	.67	206.64	206	63,535	192	59,217
.08	9.29	1.22	141.61	300	34,823	272	31,573
.06	6.80	1.31	148.52	290	32,878	312	35,372
.03	8.96	.58	173.17	194	57,923	268	80,019
.03	18.82	.58	363.92	120	75,293	148	92,861
.12	139.90	.96	1,119.00	80	93,275	80	93,275
.70	332.40	1.40	664.70	150	71,219	-	-
.40	361.00	1.00	902.00	72	64,908	-	-
.30	472.39	1.20	1,890.00	67	105,500	-	-
.16	119.89	.89	553.22	148.58	67,427	187.56	78,408

Main Stream Monitoring Stations (contd.)

Monitoring Station SC6

This monitoring station on Stony Creek is located just south of Wells Creek off L.R. 55075. It is the first station that is acid. The tributaries which influence the analysis of this station are SC6R1 Buck Run, SC5R1 unnamed, SC7L1 Grove Run and SC6L1 Lamberts Run, along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 north of Hooversville, is also given. The location of this station can be found on drawing 7119-6.

	<u>Averages</u>	<u>Percent of</u> <u>Monitoring Stations SC1</u>
pH	5.3	
Net Cold Acidity	492 PPD	1.57%
Net Hot Acidity	233 PPD	.21%
Ferrous Iron	158 PPD	20.60%
Total Iron	476 PPD	10.65%
Sulfate	78,181 PPD	40.59%
Hardness	109,803 PPD	53.33%
Flow	73,395,360 GPD	45.99%

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Monitoring Stations

Station No. SC6

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
05-01-72	67,064	4.8	11.0	8,867.0	-	-	1.0	806.11
06-15-72	36,936	5.3	8.0	3,552.0	-	-	3.0	1,332.00
07-19-72	45,504	5.3	13.0	7,110.0	-	-	3.0	1,641.00
08-16-72	10,229	4.6	45.5	5,594.0	-	-	.5	6,148.00
09-06-72	11,322	4.4	33.0	4,491.0	-	-	-	-
10-09-72	41,198	5.7	-	-	6	2,971	22.0	10,894.00
11-13-72	35,376	5.0	-	-	3	1,276	7.0	2,977.00
12-11-72	104,000	5.3	-	-	6	7,500	10.0	12,501.00
01-09-73	40,000	6.4	2.0	961.6	-	-	8.0	3,846.40
02-08-73	78,000	6.2	2.0	1,875.0	-	-	4.0	3,750.00
03-05-73	94,000	6.0	3.0	3,390.0	-	-	5.0	4,650.00
04-17-73	48,000	4.9	3.0	1,731.0	-	-	3.0	1,731.00
Average	50,969	5.3	13.39	4,175.0	5	3,916	5.54	3,683.00

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.03	24.18	.21	169.28	132	106,406	140	112,855
.03	13.32	.33	146.51	220	97,674	196	87,018
.18	98.45	.65	355.52	208	113,767	220	120,331
.16	19.67	.75	92.21	315	38,730	360	44,263
.06	8.17	1.20	163.31	346	47,087	380	51,714
.06	29.71	.34	168.37	236	116,867	500	247,600
.02	8.50	.52	221.11	132	56,129	152	64,633
.08	100.01	.88	1,100.07	78	97,506	120	150,010
.80	384.60	.80	384.60	154	74,043	-	-
.50	469.00	1.10	1,031.00	58	54,379	-	-
.30	338.96	1.10	1,243.00	72	81,352	-	-
.70	403.87	1.10	634.66	94	54,234	-	-
.24	158.20	.75	475.80	170.42	78,181	258.5	109,803

Main Stream Monitoring Stations (contd.)

Monitoring Station SC5

This monitoring station on Stony Creek is located north of the mouth of Wells Creek and L. R. 55075. The tributary which influences the analysis of this station is SC4R1 Wells Creek, along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 north of Hooversville, is also given. The location of this station found on drawing 7119-6.

	<u>Averages</u>	<u>Percent of</u> <u>Monitoring Station SC1</u>
pH	5.0	
Net Cold Acidity	4,313 PPD	13.81%
Net Hot Acidity	273 PPD	0.25%
Ferrous Iron	200 PPD	26.08%
Total Iron	612 PPD	13.69%
Sulfate	84,630 PPD	43.93%
Hardness	101,469 PPD	49.28%
Flow	87,161,760 GPD	54.61%

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Water Sampling Data

Monitoring Stations

Station No. SC 5

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
05-01-72	75,812	4.7	13	11,846	-	-	1	911.26
06-15-72	34,531	5.2	8	3,321	-	-	3	1,245.00
07-19-72	31,212	4.8	16	6,003	-	-	2	750.34
08-16-72	19,436	4.4	43	10,045	-	-	-	-
09-06-72	12,384	4.5	35	5,210	-	-	-	-
10-09-72	32,211	5.4	-	-	4	1,549	9	3,485.00
11-13-72	34,264	5.2	-	-	4	1,647	7	2,883.00
12-11-72	130,000	5.1	-	-	3	4,688	3	4,688.00
01-09-73	71,000	5.1	8	6,827	-	-	2	1,707.00
02-08-73	86,000	5.7	3	3,101	-	-	3	3,101.00
03-05-73	130,000	5.5	5	7,813	-	-	5	7,813.00
04-17-73	69,500	4.9	7	5,848	-	-	2	1,671.00
Average	60,529	5.0	15.33	6,668	3.67	2,628	3	2,355.00

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.10	91.13	0.50	455.63	160	145,802	160	145,802
.02	8.30	0.54	224.13	200	83,013	208	86,333
.06	22.51	1.06	397.68	230	86,289	232	87,039
.16	37.38	0.63	147.18	320	74,759	360	84,103
.06	8.93	0.36	53.59	336	50,016	388	57,756
.06	23.23	0.44	170.36	226	87,501	400	154,870
.02	8.24	0.39	160.62	128	52,717	172	70,838
.12	187.50	1.09	1,703.00	72	112,507	80	125,008
.5	426.70	0.70	597.40	146	124,599	-	-
.5	517.00	1.00	1,034.00	82	84,765	-	-
.3	468.78	1.00	1,563.00	72	112,507	-	-
.6	501.23	1.00	835.39	130	1,086	-	-
Average							
.28	200.08	.73	611.83	175.17	84,630	250	101,469

Main Stream Monitoring Stations (contd.)

Monitoring Station SC4

This monitoring station on Stony Creek is located just north of the bridge on Pa. State Route 403 (old Pa. State Route 53) near the Kantner High School. The tributaries which influence the analysis of this station are SC5L3 unnamed, SC3R1 Beaverdam Run, SC2R2 unnamed, SC2R1 unnamed, SC5L2 unnamed and SC5L1 unnamed along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 north of Hooversville, is also given. The location of this station is shown on drawing 7119-6.

	<u>Averages</u>	<u>Percent of Monitoring Station SC1</u>
pH	5.6	
Net Cold Acidity	2,189 PPD	7.01%
Net Hot Acidity	0 PPD	0%
Ferrous Iron	210 PPD	27.42%
Total Iron	611 PPD	13.67%
Sulfate	106,781 PPD	51.86%
Hardness	174,425 PPD	84.71%
Flow	108,182,880 GPD	67.78%

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Water Sampling Data

Monitoring Stations

Station No. SC 4

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-05-72	272,430	6.1	6	19,631	-	-	4	13,088
05-02-72	60,453	4.8	10	7,266	-	-	1	727
06-15-72	42,646	5.8	4	2,050	-	-	4	2,050
07-20-72	45,221	6.8	8	4,348	-	-	4	2,174
08-16-72	17,708	4.8	39	8,301	-	-	1	212.85
09-06-72	8,987	5.8	9	972	-	-	3	324.07
10-09-72	40,311	6.3	-	-	-	-	8	3,876
11-06-72	24,458	5.6	-	-	-	-	20	5,880
12-11-72	170,000	5.3	-	-	5	10,217	7	14,304
01-09-73	68,300	5.2	6	4,926	-	-	2	1,642
02-07-73	96,000	5.2	5	5,770	-	-	2	2,308
03-05-73	55,000	5.7	5	3,366	-	-	4	2,644
Average	75,127	5.6	10.22	6,292	1.67	3,406	5	4,103

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.03	98.16	.12	392.63	60	196,313	84	274,838
.10	72.66	.27	196.19	150	108,997	152	110,450
.12	61.51	.34	174.29	266	115,849	236	120,975
.12	65.23	.58	315.26	266	144,586	208	113,060
.12	25.54	.83	176.67	325	69,176	348	74,072
.02	2.16	.34	36.73	316	34,136	384	41,481
.06	29.07	.55	266.49	246	119,196	500	242,269
.03	8.82	.29	85.26	170	49,978	216	63,502
.10	204.34	.96	1,961.66	75	153,255	140	286,076
1.50	1,231.46	1.7	1,395.65	169	138,744	-	-
.40	462.00	1.1	1,270.00	84	96,930	-	-
.40	264.44	1.6	11,058.00	82	54,210	-	-
Average							
.26	210.37	.72	610.74	184.08	106,781	252	174,425

Main Stream Monitoring Stations (contd.)

Monitoring Station SC3

This monitoring station on Stony Creek is located a few hundred yards downstream of the mouth of Oven Run (SC4L2). The tributaries which influence the analysis of this station are SC1R3 unnamed and SC4L2 Oven Run along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 north of Hooversville, is also given. The location of this station is shown on drawing 7119-6.

	<u>Averages</u>	<u>Percent of</u> <u>Monitoring Station SC1</u>
pH	4.4	
Net Cold Acidity	32,050 PPD	102.59%
Net Hot Acidity	36,080 PPD	33.59%
Ferrous Iron	617 PPD	80.41%
Total Iron	1,832 PPD	40.99%
Sulfate	144,717 PPD	70.28%
Hardness	137,769 PPD	66.91%
Flow	89,948,160 GPD	56.36%

STONY CREEK WATERSHED

SL-179

Water Sampling Data

Monitoring Stations

Station No. SC3

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-05-72	-	4.2	35	-	-	-	-	-
05-01-72	84,816	5.3	5	5,097	-	-	3	3,058
06-15-72	37,051	4.3	26	11,519	-	-	-	-
07-20-72	16,070	5.9	7	1,352	-	-	3	579
08-15-72	24,250	4.5	26	7,579	-	-	-	-
09-05-72	21,879	4.7	14	3,682	-	-	2	526
10-09-72	47,628	4.0	-	-	47	26,906	-	-
11-06-72	39,406	4.7	-	-	14	6,631	10	4,737
12-04-72	100,000	3.9	-	-	64	76,928	-	-
01-09-73	63,000	3.5	88	66,639	-	-	-	-
02-07-73	100,000	3.7	88	105,776	-	-	-	-
03-05-73	153,000	3.9	33	60,689	-	-	-	-
Average	62,464	4.4	35.78	32,792	41.67	36,822	1.5	741.67

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.12	-	.24	-	88	-	96	-
.03	30.58	.23	234.48	140	142,728	152	154,962
.03	13.36	.58	250.30	216	96,196	220	97,978
.06	11.59	.54	104.31	216	41,723	228	44,041
.13	37.89	.39	113.68	315	91,818	316	92,109
.08	21.04	.30	78.90	345	90,730	388	102,038
.03	17.17	5.90	3,378.00	270	154,572	600	343,493
.02	9.47	1.50	710.49	166	78,628	240	113,678
.03	36.06	.21	252.42	75	90,150	128	153,856
3.60	2,726.00	4.30	3,256.00	280	212,033	-	-
1.70	2,044.00	5.20	6,251.00	310	372,620	-	-
1.00	1,839.00	3.00	5,517.00	120	220,687	-	-
Average							
.57	616.92	1.87	1,832.55	211.75	144,717	263.11	137,769

Main Stream Monitoring Stations (contd.)

Monitoring Station SC2

This monitoring station on Stony Creek is located to the east of L.R. 55083, just south of the division of sub-watersheds 2L and 3L. The tributaries which influence the analysis of this station are SC4L1 unnamed, SC3L2 Pokeytown Run, and SC3L1 unnamed along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The percentage of each pollution value compared to the corresponding pollution value at Monitoring Station SC1 north of Hooversville, is also given. The location of this station is shown on drawing 7119-6.

	<u>Averages</u>	<u>Percent of</u> <u>Monitoring Station SC1</u>
pH	4.6	
Net Cold Acidity	27,100 PPD	86.75%
Net Hot Acidity	25,412 PPD	24.14%
Ferrous Iron	780 PPD	101.63%
Total Iron	4,307 PPD	96.38%
Sulfate	147,035 PPD	71.41%
Hardness	145,338 PPD	70.58%
Flow	135,394,560 GPD	84.83%

STONY CREEK WATERSHED

SL-179

Water Sampling Data

Monitoring Stations

Station No. SC 2

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-05-72	-	7.0	4	-	-	-	10	-
05-01-72	86,193	3.9	30	31,081	-	-	-	-
06-19-72	35,089	4.2	36	15,184	-	-	-	-
07-13-72	76,910	4.2	43	39,752	-	-	-	-
08-15-72	17,303	3.7	88	18,302	-	-	-	-
09-05-72	11,030	3.4	92	12,197	-	-	-	-
10-09-72	76,419	4.3	-	-	31	28,475	-	-
11-06-72	36,320	6.7	-	-	34	14,843	7	3,056
12-04-72	143,000	4.6	-	-	21	36,096	1	1,719
01-09-73	72,000	4.5	44	38,079	-	-	-	-
02-07-73	150,000	4.6	15	27,045	-	-	-	-
03-05-73	330,000	4.6	111	43,633	-	-	2	7,933
Average	94,024	4.6	40.33	28,159	28.67	26,47	11.67	1,059

Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.08	-	.14	-	60	-	100	-
.08	82.88	.33	341.89	166	171,983	160	165,766
.03	12.65	4.36	1,839	220	92,789	212	89,415
.08	73.96	4.00	3,678	220	203,381	228	210,776
.45	93.59	14.90	3,099	350	72,794	352	73,210
.20	26.52	11.80	1,564	330	43,752	500	66,290
.08	73.48	8.80	8,083	240	220,454	300	275,567
.08	34.93	6.70	2,925	186	81,202	220	96,045
.50	859.43	4.26	7,322	106	182,199	108	185,637
3.00	2,596.00	6.90	5,972	200	173,088	-	-
1.30	2,344.00	3.00	5,409	50	90,150	-	-
.60	2,380.00	1.80	7,140	72	285,595	-	-
Average							
.54	779.77	5.58	4,307	183.33	147,035	242.22	145,338

Main Stream Monitoring Stations (contd.)

Monitoring Station SC1

This monitoring station on Stony Creek is located at the northern boundary of our study area, west of Pa. State Route 403 (Old Pa. State Route 53). The tributaries which influence the analysis of this station are SC1R2 unnamed, SC2L2 unnamed, SC2L1 Fallen Timber Run, SC1L2 Dixie Run, SC1R1 unnamed, and SC1L1 unnamed along with those contributing to previously described monitoring stations. The following are averages of the pollution load and flow of Stony Creek at this station. The location of this station is shown in drawing 7119-6.

	<u>Averages</u>
pH	4.2
Net Cold Acidity	31,240 PPD
Net Hot Acidity	108,525 PPD
Ferrous Iron	767 PPD
Total Iron	4,469 PPD
Sulfate	192,628 PPD
Hardness	205,905 PPD
Flow	159,600,960 GPD

STONY CREEK WATERSHED

SL-179

Water Sampling Data

Monitoring Stations

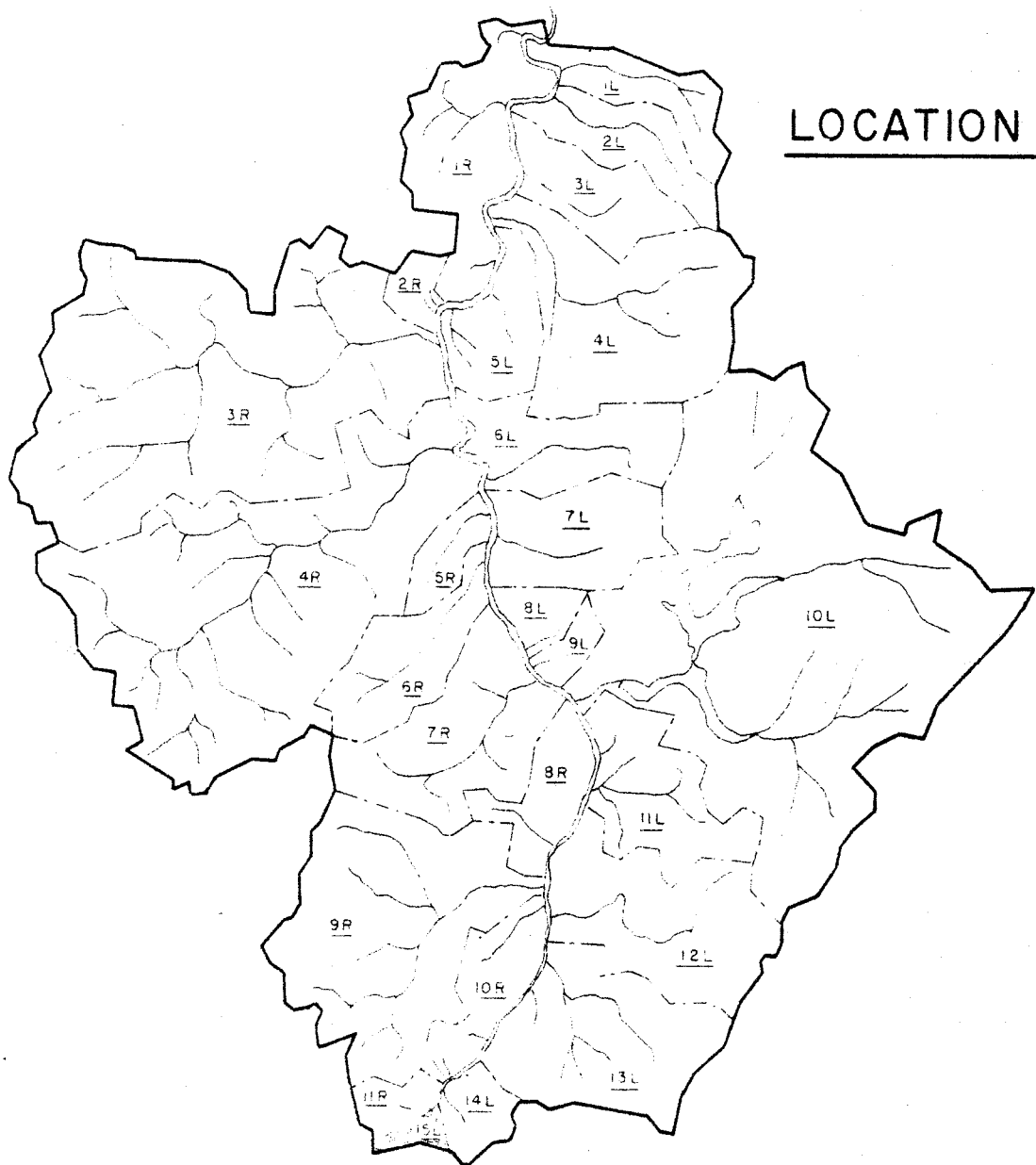
Station No. SC-1

Date	GPM	pH	Cold Acidity		Hot Acidity		Alkalinity	
			ppm	ppd	ppm	ppd	ppm	ppd
04-05-72	-	4.9	9	-	-	-	2	-
05-01-72	116,123	4.0	29	40,478	-	-	-	-
06-19-72	73,031	4.2	40	35,113	-	-	-	-
07-13-72	73,085	4.2	47	41,289	-	-	-	-
08-15-72	25,281	3.9	75	22,791	-	-	-	-
09-05-72	14,306	3.5	93	15,992	-	-	-	-
10-09-72	46,134	4.3	-	-	32	17,745	-	-
11-06-72	44,215	4.2	-	-	500	265,730	-	-
12-04-72	180,000	4.4	-	-	21	45,436	-	-
01-09-73	65,000	3.7	40	31,252	-	-	-	-
02-07-73	212,000	4.4	16	40,772	-	-	-	-
03-06-73	370,000	4.8	7	31,132	-	-	3	13,342
Average	110,834	4.2	39.55	32,352	184.33	109,637	0.42	1,112





Ferrous Iron		Total Iron		Sulfate		Hardness	
ppm	ppd	ppm	ppd	ppm	ppd	ppm	ppd
.03	-	.20	-	65	-	100	-
.02	27.92	5.30	7,398	166	231,703	200	279,160
.10	87.78	2.22	1,949	240	210,680	224	196,635
.08	70.28	3.76	3,303	240	210,835	260	228,405
.20	60.78	1.40	425.43	340	103,318	344	104,535
.13	22.35	1.88	323.28	354	60,873	440	75,662
.12	66.54	4.70	2,606	250	138,632	500	277,265
.20	106.29	5.20	2,764	205	108,949	360	191,326
.12	259.63	4.50	9,736	145	313,722	136	294,250
.70	546.91	6.40	5,000	200	156,260	-	-
1.60	4,078.00	3.00	7,645	100	254,824	-	-
.70	3,113.00	1.80	8,005	74	329,107	-	-
Average							
.33	767.23	3.36	4,469	198.25	192,628	284.89	205,905



LOCATION MAP



LEGEND FOR THE FOLLOWING PLATES

- Y - DEEP MINE OPENING (M4R59B)
- ▲ - PIPE - (SAMPLE STATIONS - MIOL6IA, BH3R18 OR AS4R35)
- W - WEIR - (TRIBUTARY SAMPLE STATION - SC5L1)
- - CROSS-SECTION - (TRIBUTARY SAMPLE STATION - SC3R1)
- - STONY CREEK CROSS-SECTION (SAMPLE STATION - SC4)
-  - STRIP MINE (ABANDONED - S3L27)
-  - STRIP MINE (ACTIVE - S3L26)
-  - STRIP MINE (RECLAIMED - S3L14)
-  - GOB PILE (G6L1)
- A, B, C - UNDERLINED SUFFIX - INDICATES FLOWING DEEP MINE SAMPLE STATIONS - M3R5C, B
- S5L2 - UNDERLINE INDICATES FLOWING STRIP MINE, GOB PILE OR BORE HOLE SAMPLE STATION