

2. Ramsey Run Watershed

a. General

The headwaters of Ramsey Run originate east of Indiana Borough and the stream flows in a generally southerly direction for a distance of approximately 4 miles where it discharges into Two Lick Creek. The total stream length, including all tributaries, is about 11.2 miles. The total area of the watershed is approximately 4.6 square miles.

There is no history of coal mining within the basin. Consequently, there is no mine drainage and the stream quality is good.

There is evidence of contamination from runoff from recent road construction near Indiana. It is believed that this is the main source of the bulk of contaminants measured at Sampling Station #317. Table 22 on the following page shows maximums, minimums, and yearly averages for Sampling Station #317.

Plate 16 shows the location of the above sampling station and the tributaries.

Plate 17 graphically illustrates the monthly relationship between stream flow, contamination load, and weather elements within the watershed.

Peak flows and contamination loads occurred during the months of April and June.

PH levels remained quite stable throughout the period ranging from 6.1 to 6.6 with the lower pH's occurring during periods of high runoff.

Data representing the first five months are estimated as the weirs were continuously washed out by high water and ice.

Ramsey Run contributed the following percentages of flow and contamination load to the total pollution load of Two Lick Creek at Sampling Station #419: Flow - 10%; Acidity - 2%; Iron - 2%; and, Sulfate - 3%.

Approximately 5,982,000 gallons of water per day entered the Two Lick Creek System from Ramsey Run during the study period.

Table 22

Water Quality Data

Ramsey Run Watershed

<u>Sampling Station</u>	<u>Flow GPM</u>	<u>pH Range</u>	<u>Acid Load Lbs./Day</u>	<u>Acidity Mg./L.</u>	<u>Iron Mg./L.</u>	<u>Sulfate Mg./L.</u>
317	Max. 17,055 Min. 553 Ave. 4,154	4.4 - 5.9	185	Max. 14 Min. 2 Ave. 4	Max. 1 Min. .1 Ave. .4	Max. 110 Min. 30 Ave. 69

RAMSEY RUN WATERSHED




WATERSHED AREA



INDIANA



LEGEND

-  RAMSEY RUN DRAINAGE BASIN
-  SAMPLING STATION



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**TWO LICK CREEK
 MINE DRAINAGE POLLUTION
 ABATEMENT PROJECT**
 INDIANA COUNTY, PENNSYLVANIA

PREPARED FOR
 PENNSYLVANIA
 DEPARTMENT OF MINES
 AND
 MINERAL INDUSTRIES

RELATIONSHIP BETWEEN STREAM FLOW, POLLUTION LOAD AND WEATHER ELEMENTS

STATION 317

RAMSEY RUN (Near Mouth)

