

## INTRODUCTION

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The Toby Creek Project SL 132 is a mine drainage abatement project intended to cover a limited portion of the watershed of Toby Creek in Elk County, Pennsylvania.

The object of the project is the reduction of the acid drainage from a mine complex involving both deep mines and unreclaimed strip mines.

The area encompassed by the project is bounded by Brandy Camp Run on the west, Hays Run on the east, Toby Creek to the south and by Benninger Creek on the north. When the boundaries of the project were selected, it was acknowledged that the use of watershed boundaries was inappropriate because the mine complex was not contiguous to any single watershed. Therefore, the streams were used as project boundaries. (See Appendix A1)

The deep mines involved are all abandoned, as are the strip mine operations, with one exception. The exception is a small strip mine project in the Curry Run basin. This mining is seen as beneficial since it involves the reworking of old abandoned strip mines. This time however, the workings will be backfilled and planted in accordance with the 1965 legislation governing strip mine backfill.

The project was not limited to a pollution survey but called for investigation into the most practical method of abating drainage from the system. Because of the nature of the mining system, this called for detailed investigation of the geology and hydrology of the area.