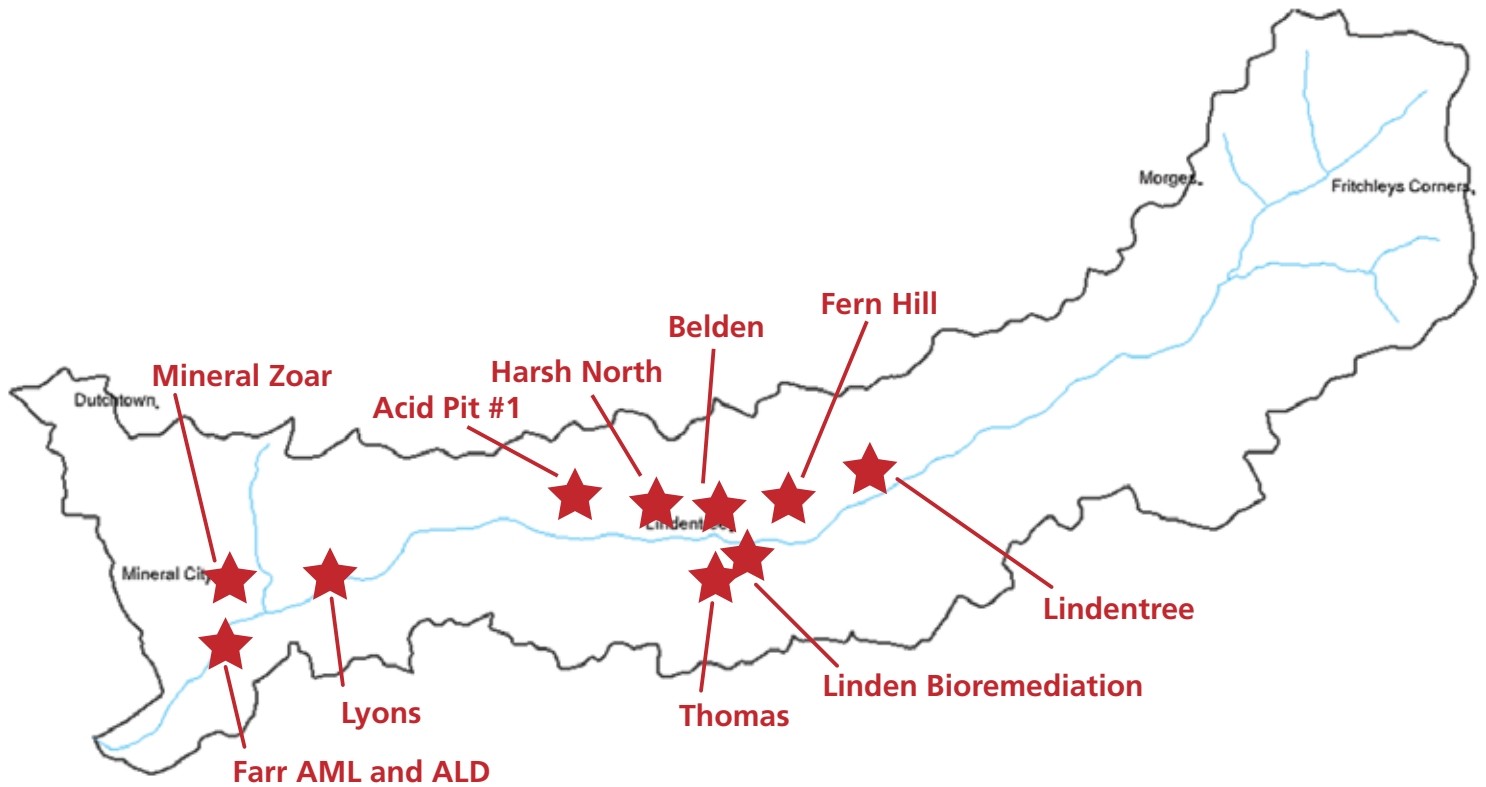


## HUFF RUN WATERSHED

Generated by Non-Point Source Monitoring System [www.watersheddata.com](http://www.watersheddata.com)



• Huff Run flows from the Morges community in Carroll County, into Tuscarawas County and has its confluence in the Conotton Creek just South of Mineral City, Ohio. Huff Run is 9.9 miles long with a 13.9 square mile watershed. Almost all land east of State Route 542 (about 2/3 of the watershed) has been mined for coal and some limestone and clay. Because much of the land mined was not reclaimed, the watershed is plagued with the resulting acid mine drainage. Other pollution issues in the watershed include illegal dumping, poor riparian buffers, raw sewage entering the stream, oil and gas impacts, and agricultural impacts.

• The Huff Run Watershed Restoration Partnership Inc. (HRWRP) was founded in 1996 by a group of concerned citizens. The HRWRP has partnered with ODNR/MRM, Rural Action, OEPA, Crossroads RC&D, OSM and others to fulfill their mission statement

which is "To restore the Huff Run watershed by improving water quality and enhancing wildlife habitat, through community support and involvement."

• The Farr Anoxic Limestone Drain, the first passive treatment system in the watershed, was constructed in 2000. Also, HRWRP can boast of building the first bioremediation system in Ohio with their Linden Restoration Project. They also were awarded a US EPA Targeted Watershed Grant in 2005 for their Belden Successive Alkaline Producing System. At their 10 year anniversary, seven restoration projects have been completed with funding obtained for five more.

• To learn more about the HRWRP, visit their website at [www.huffrun.org](http://www.huffrun.org) or call 330-859-1050 to reach their office.

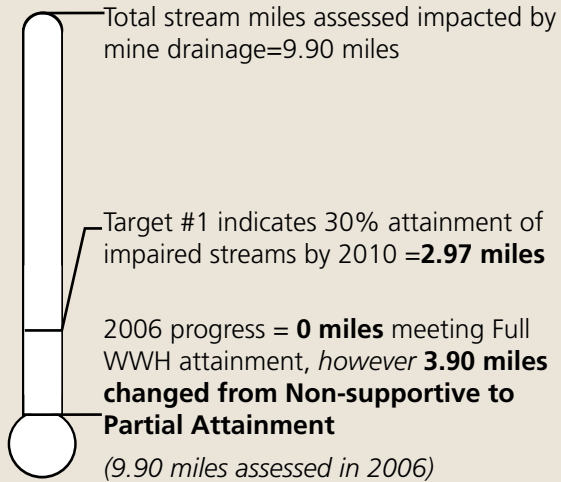
# HUFF RUN WATERSHED

Generated by Non-Point Source Monitoring System [www.watersheddata.com](http://www.watersheddata.com)

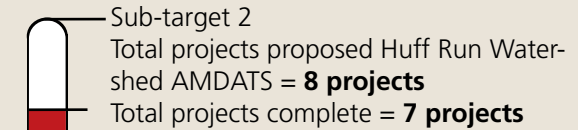
## Reductions

Total acid load reduction = **83 lbs/day**

## Attainment Miles



## Completion



## Costs

Design \$649,784 (excluding Linden, Acid Pit #1, and Huff Run AML project)  
Construction \$2,619,455 (excluding Huff Run

**Total costs=\$3,269,239**

## Cumulative BMP's installed

Treatment Installed	Quantity
Surface Reclamation	22.2 acres
Limestone J-trench	4,725 linear feet
Gob Pile Reclamation	6.0 acres

Projects Completed July 1, 2006 – June 30, 2007

**Harsha North** total cost: **\$793,095**

## Load Reductions

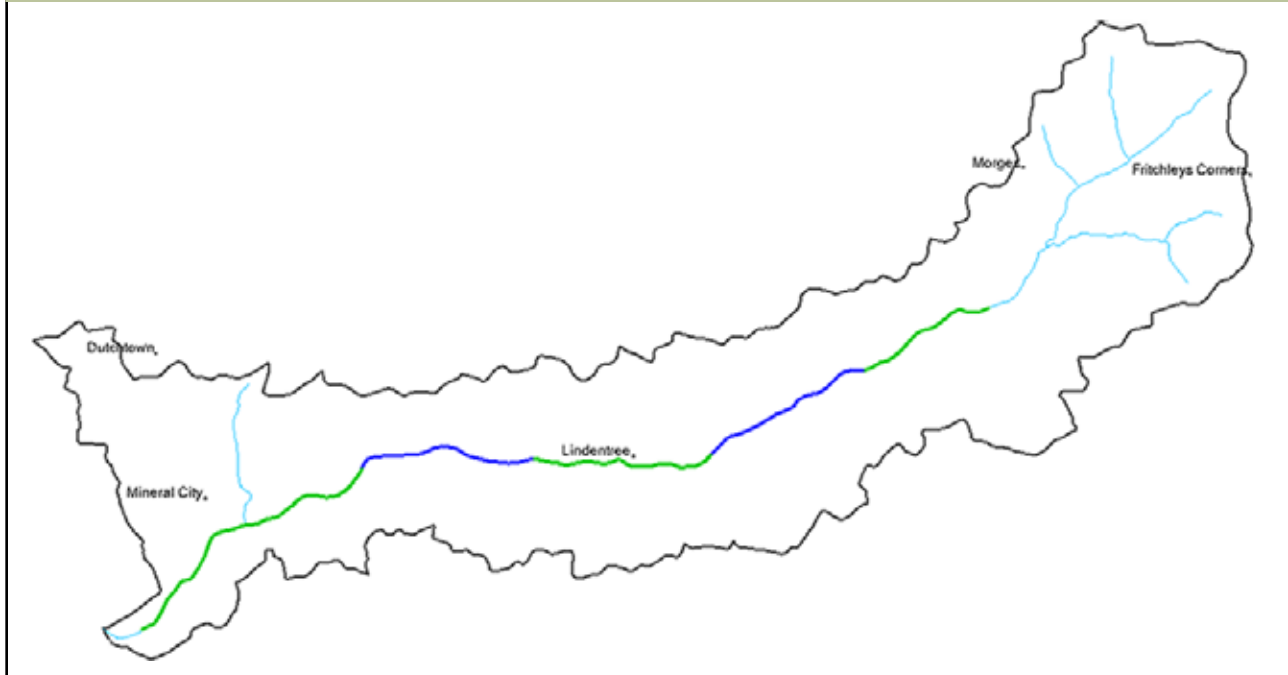
	Acid Load Reduction	Metal Load Reduction
<b>Harsha North</b>	<b>NA</b>	<b>NA</b>

# HUFF RUN WATERSHED

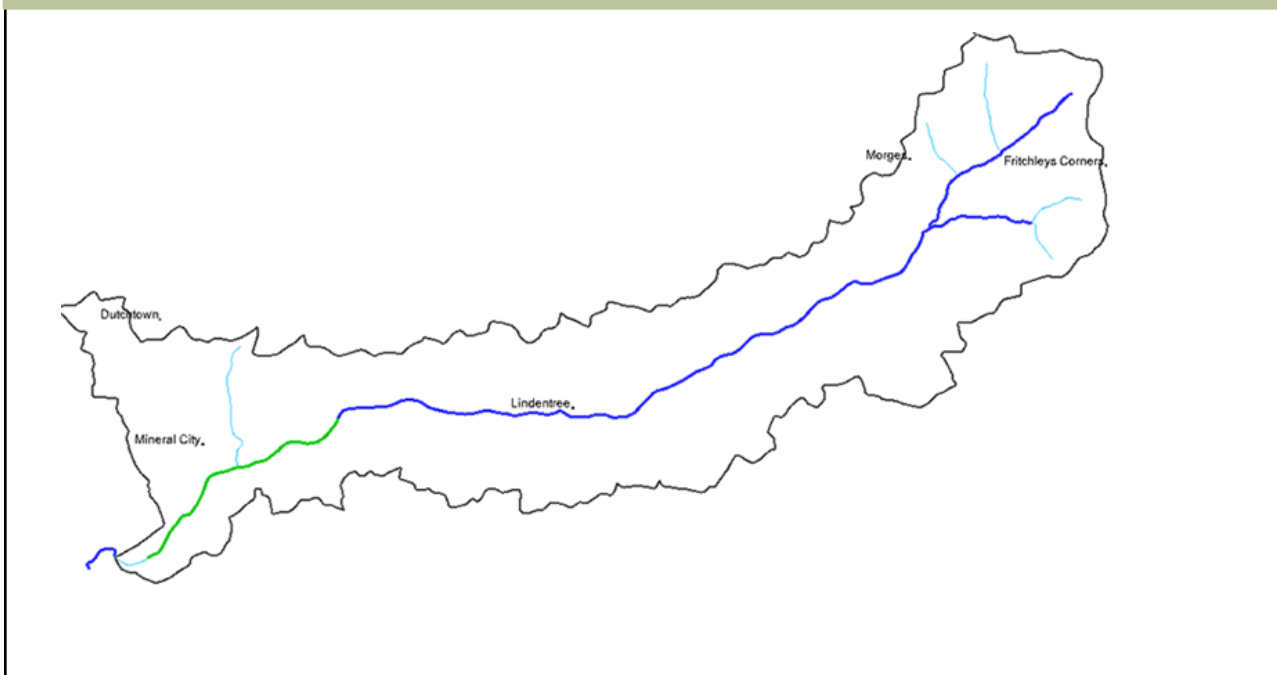
Generated by Non-Point Source Monitoring System [www.watersheddata.com](http://www.watersheddata.com)

## Chemical Water Quality

### Huff Run baseline pH



### Huff Run 2005 pH



Lab pH	
	< 4
	4 - 5.4
	5.5 - 6.4
	> 6.4

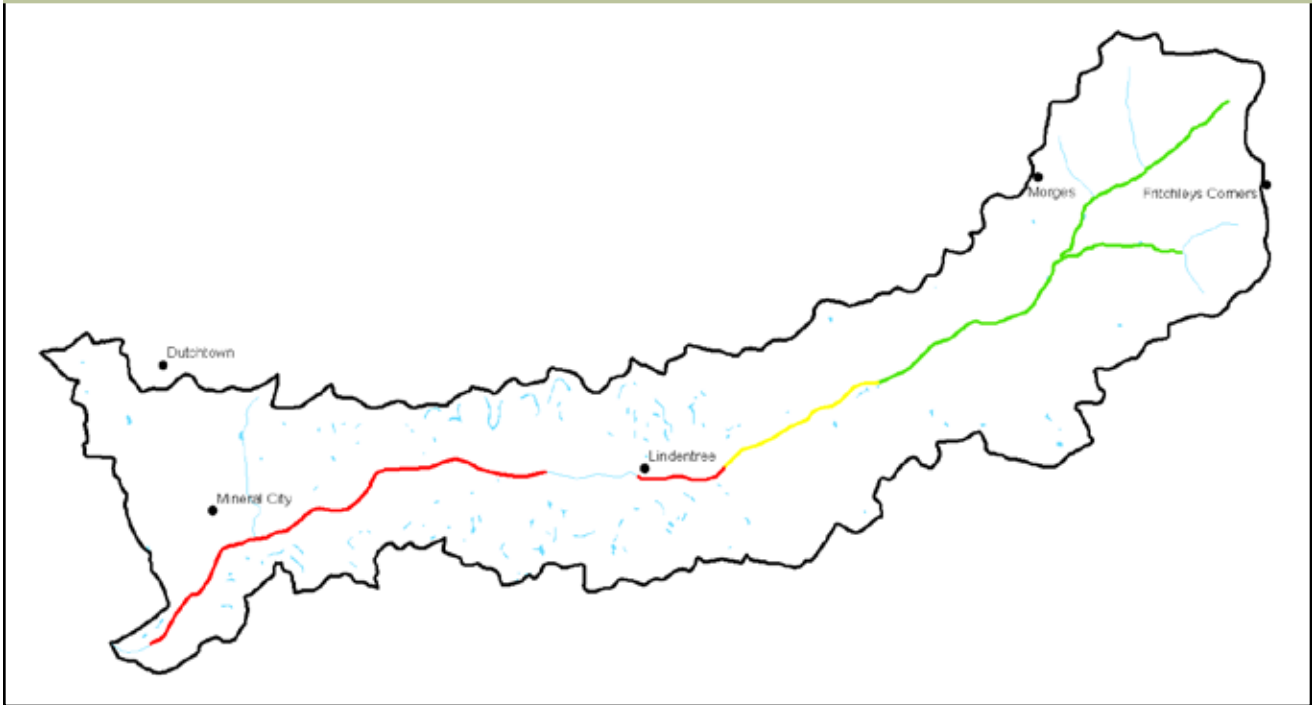
Huff Run pH values have improved from baseline conditions (1985-1998) to 2005. Two mainstem sections totaling 2.3 miles have improved pH values from the range 5.5 -6.4 to now meeting water quality standards pH >6.5.

# HUFF RUN WATERSHED

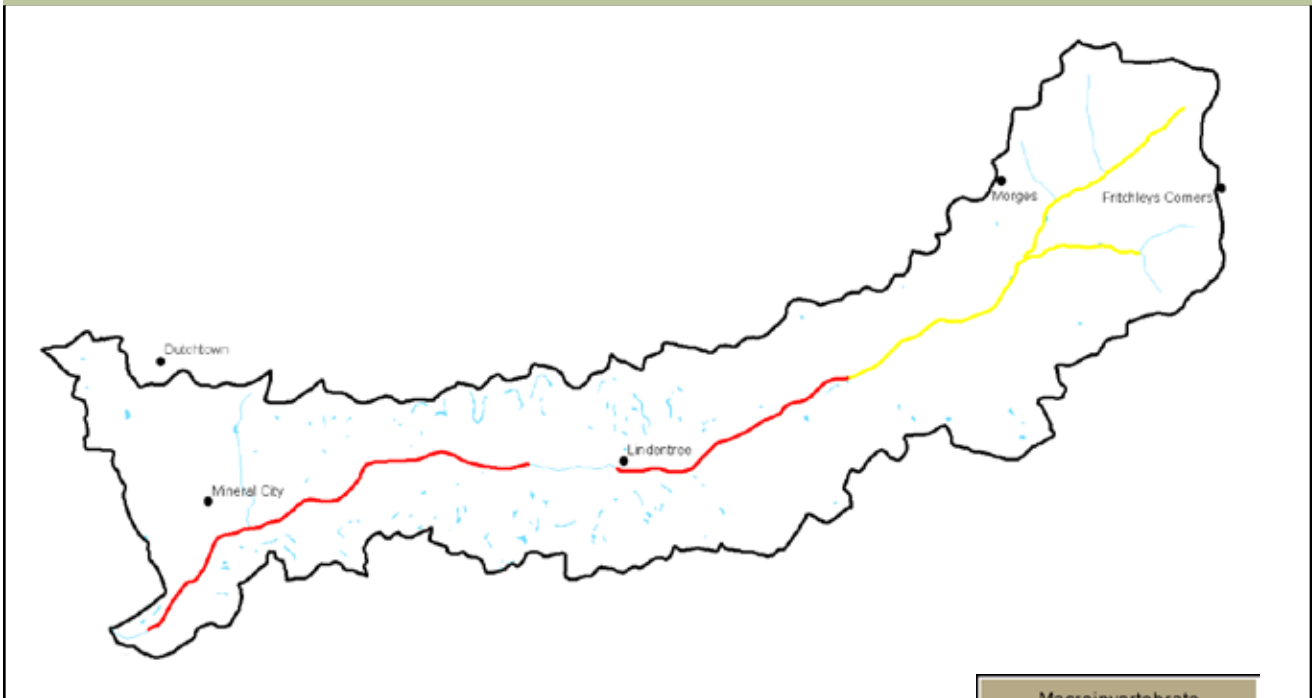
Generated by Non-Point Source Monitoring System [www.watersheddata.com](http://www.watersheddata.com)

## Biological Water Quality

### Huff Run 2005 MAIS



### Huff Run 2006 MAIS



Huff Run aquatic life use has improved from baseline conditions (1985-1998) to 2005. Aquatic life use has changed from WWH Non-supportive to WWH Partial Attainment along 3.9 mile in Huff Run. In 2006 the MAIS scores decreased in the headwaters slightly.

Macroinvertebrate  
Aggregated  
Index for Streams

-  0 - 7
-  8 - 11
-  12 - 15
-  > 15