Huntsville Golf Course Headwater Tributaries flowing into the Huntsville Creek Watershed

EPCAMR

Eastern Pennsylvania Coalition for Abandoned Mine Reclamation

Figure 1

Headwaters of unnamed tributary (UNT) through Huntsville Golf Club, further upstream it passes under 118

Figure 2

More headwaters downstream from Fig. 1

Figure 3

Headwaters entering UNT on golf club near Route 118

Figure 4

Downstream view of UNT passing further into golf club.

Figure 5

Upstream view of UNT meandering through golf club.

Figure 6

Downstream view of UNT entering concrete pipe under path in golf club.

Figure 7

Downstream view of UNT passing through concrete pipe and then under bridge

Figure 8

Upstream view of pipe in Fig. 7, slightly broken and filled with sediment

41.320072, -76.015741

Figure 9

Downstream view of UNT in Fig. 3-8: Further downstream, passing through two concrete pipes, with one HDPE pipe for high flow

Figure 10

Photo of stick-building caddisfly in UNT in Fig. 9

Further upstream from Fig. 9, a footpath obstructs flow.

41.322277, -76.010726

Figure 11

Two ponds on one side of cart path, not part of golf club property, all drain toward Rte. 115

Winged culvert carries small UNT from here to second pond

Figure 12

Second pond near golf club, connected to first with winged culvert

Figure 13

Third pond on other side of cart path with drain from Fig. 13, also drains to Rte. 115

Figure 14

Downstream view of drainage from pond in Fig. 12 to pond in Fig. 13

Figure 15

Upstream view of HDPE pipe in Fig. 14

41.314697, -76.010623

Figure 16

Abandoned barn on golf club with UNT and headwaters that drain toward Rte. 115

Figure 17

Large pond near Fig. 16 with drainage pump that carries excess flow to other wetlands closer to Rte. 115

Figure 18

View of pump in pond in Fig. 17 that carries excess flow

Figure 19

Another pond near Fig. 16-19, also drains toward Rte. 115

41.313735, -76.013980

Figure 20

Downstream view of HDPE pipe that carries excess flow from pond in Fig. 17-18 into wetlands that drain toward Rte. 115

Figure 21

Downstream view of HDPE pipe in Fig. 20 and the golf club's dog

Figure 22

View of HDPE pipe on other side of cart path that receives the pump used in the pond in Fig. 17-18

41.312916, -76.012564

Figure 23

View of drop-in culvert that carries flow from wetlands in Fig. 20-21 further toward Rte. 115

Full of sediment and prone to flooding in high flow events

Figure 24

Downstream view of UNT from Fig. 23 after it passes under cart path (very entrance of GC)

Pipe is buried under soil and sediment

41.310649, -76.011304

Figure 25

Upstream view of UNT further DS from Fig. 24 after it enters the GC

Manager commented that flow often crosses cart path, wondered how to improve

Figure 26

Downstream view of UNT in Fig. 25 as it enters HDPE before being buried under golf club, then draining into wetlands closer to Rte. 115

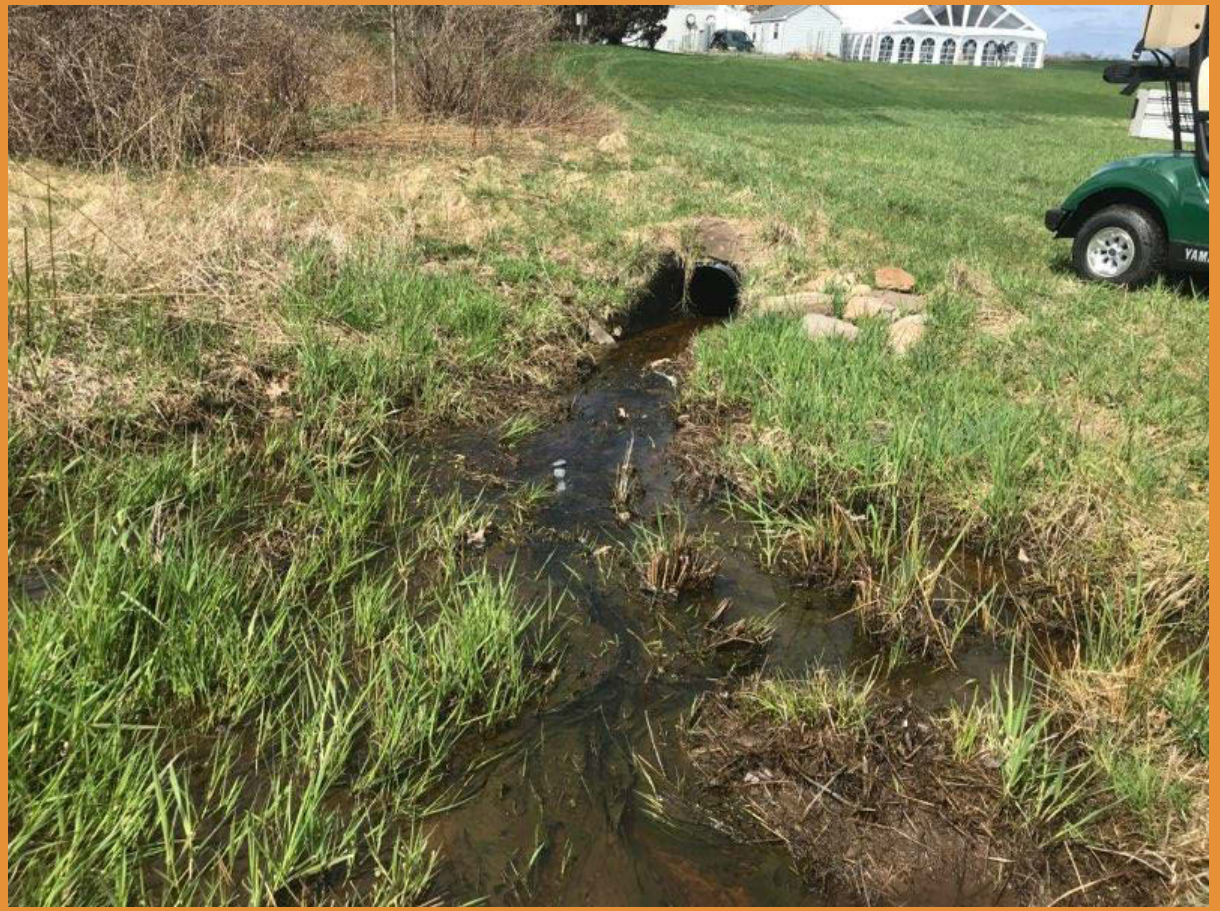

Figure 27

Broad view of where UNT passes under golf club before entering wetlands

41.310649, -76.011304

Figure 28

Downstream view of wetlands closest to Rte. 115, where most flow drains, including that from HDPE pipe on left

Flow enters concrete pipe before UNT flows into more wetlands

Figure 29

Upstream of UNT in Fig. 28 as it meanders through lower golf club

Figure 30

Downstream view of UNT in Fig. 28-29 after it passes under cart path

Figure 31

Upstream view of unnamed tributary (UNT) in Fig. 30 as it passes through concrete pipe

Large scour with roughly 6” drop to UNT from pipe, does cause some bank erosion

41.314844, -76.003628