

The Bad

Confluence of Unnamed Tributary and Meeting of the Waters at UNC Pinetum

Obvious gray discoloration of water

Source was investigated by Sharon Myer and her staff and found to be a illicit discharge from a laundry facility at UNC Hospital

Measures under way to correct problem



The Bad

Wilson Creek at US 15-501

Poor stormwater control at DOT construction site Obvious erosion of topsoil Visible turbidity in runoff Source of sediment deposition to Wilson Creek



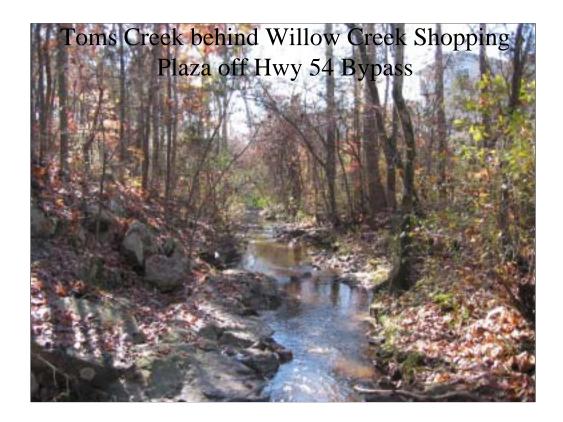
The Bad

Toms Creek behind Willow Creek Shopping Plaza off Hwy 54 Bypass

Significant bank erosion

Exposed roots indicate that bank erosion may be ongoing

High bank indicates stream may be incised at this location



The Good

Toms Creek behind Willow Creek Shopping Plaza off Hwy 54 Bypass

Bedrock substrate maintains grade control which has prevented stream from incising

 $\label{low-flood-plain} Right\ bank\ low-flood\ plain\ readily\ accessible\ during\ storm\ flow\ events$ $\ Riparian\ buffers\ intact$

Some sections are good example of step-pool stream type



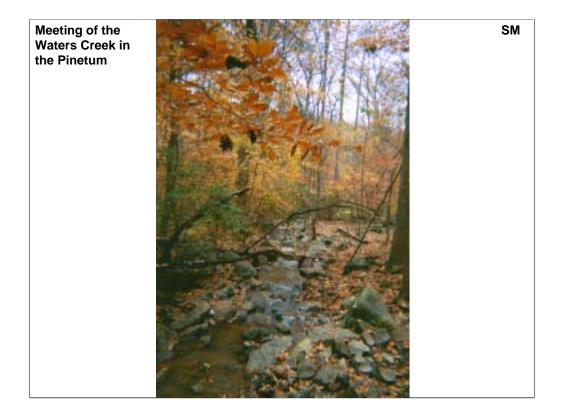
The Good

Morgan Creek at Ashe Ave. – Chapel Hill

Buffers intact – alluvial valley heavily forested through this section (despite surrounding suburban community)

Floodplain immediately accessible off right bank (not visible in photo)

Photo taken in meander bend indicative of good stream pattern in this area



The Good

Meeting of the Waters in UNC Pinetum

Rocky substrate helps maintain grade control in this section, which has prevented stream from incising

Banks low – flood plain readily accessible during storm flow events

Preservation of Pinetum insures that riparian buffers remain intact

Some sections are good example of step-pool stream type (including the section in the photo)

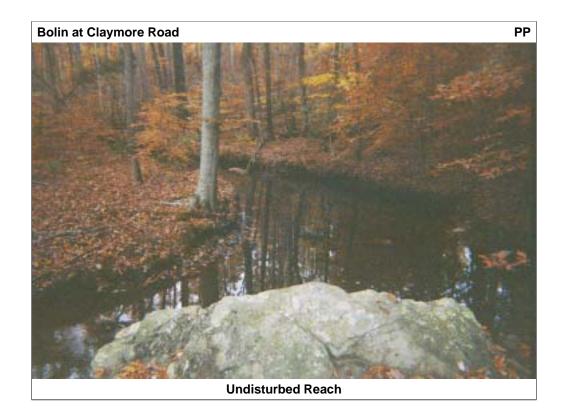
Highly valuable open space/habitat near urban center



The Good

Tributary to Bolin Creek at edge of Adams Property

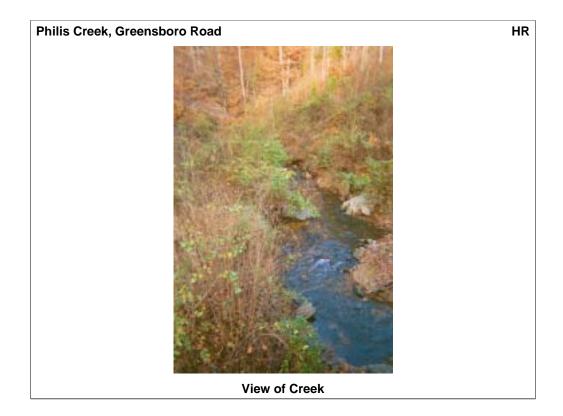
Floodplain appears readily accessible – stream not incised Riparian buffer intact and extensive



The Good

Bolin Creek at Claymore Rd.

Floodplain appears accessible – stream not likely to be incised
Riparian buffer intact and extensive
Extensive mid-age to mature hardwood forest in riparian zone – good habitat
Photo taken in meander bend indicative of good stream pattern in this area



The Good

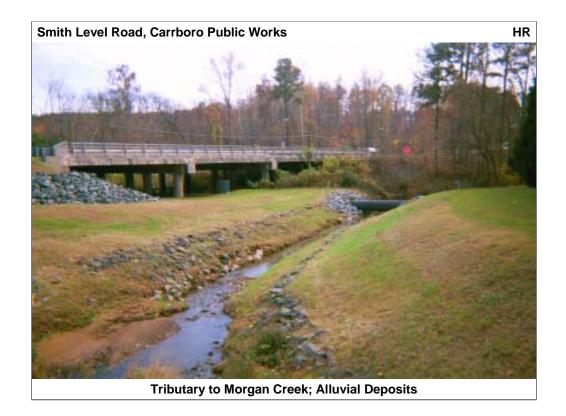
Phils Creek at Greensboro Road (not actually in Little/Bolin Creek watershed)

Floodplain appears accessible – stream not likely to be incised

Meander bend in photo indicative of good stream pattern in this area

Riparian buffer intact and extensive (not clearly visible in photo).

Extensive portions of alluvial valley covered with mature hardwood forest in this area



The Bad

Tributary to Morgan Creek at Smith Level Road (not actually in Little/Bolin Creek watershed)

Stream segment straightened Riparian vegetation removed Sediment deposits in stream bed Stream banks artificially hardened



The Bad

Tributary to Little Creek at Chapel Hill Golf Course

Riparian vegetation removed and regularly disturbed (mowed)

Algae and/or aquatic macrophyte growth in still section indicates strong potential for nutrient over-enrichment

Banks eroded (not shown in photo)

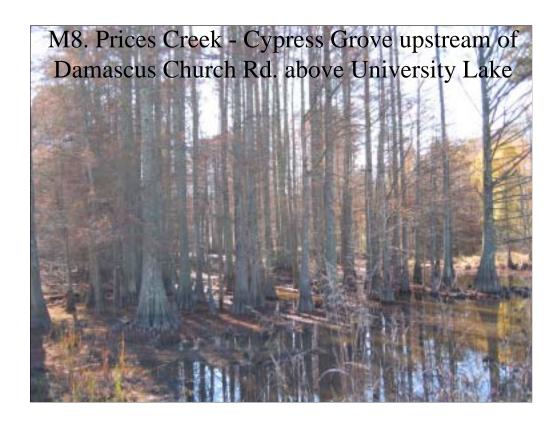
Stream likely to be incised in some sections



The Bad

Bolin Creek at Bollingwood

Severe bank erosion – prime example of slope failure High steep bank – stream may be incised in this area Narrow riparian buffer – encroachment by structures



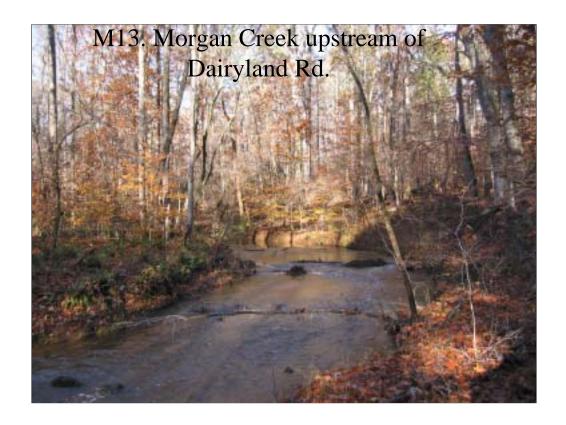
The Good

Prices Creek at Damascus Church Rd. – upstream of University Lake

Broad and easily accessible flood plain

Mid-age cypress grove – unique ecological community and habitat

*It was noted in the meeting that this is technically an invasion of a non-native species.



The Good

Morgan Creek upstream of Dairyland Rd.

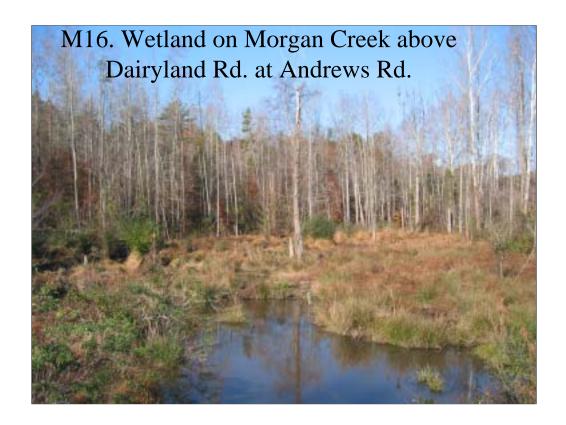
 $Floodplain\ appears\ accessible-stream\ only\ slightly\ incised,\ if\ at\ all$

Rocky substrate helps maintain stream grade

Meander bend in photo indicative of good stream pattern in this area

Riparian buffer intact and extensive

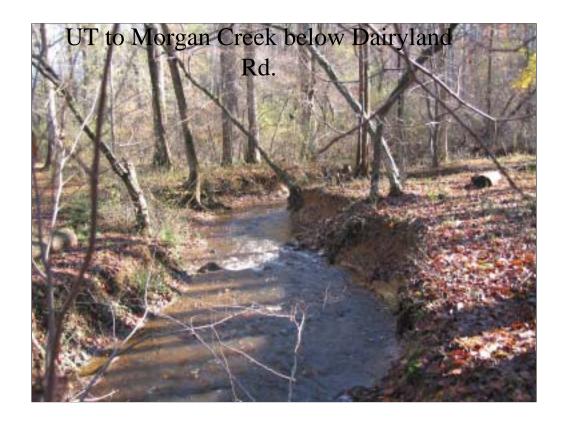
Extensive portions of alluvial valley covered with mature hardwood forest in this area



The Good

Wetland on Morgan Creek at Andrews Rd.

Extensive riparian wetland formed by beaver impoundment Good for flood control and pollutant removal Prime habitat



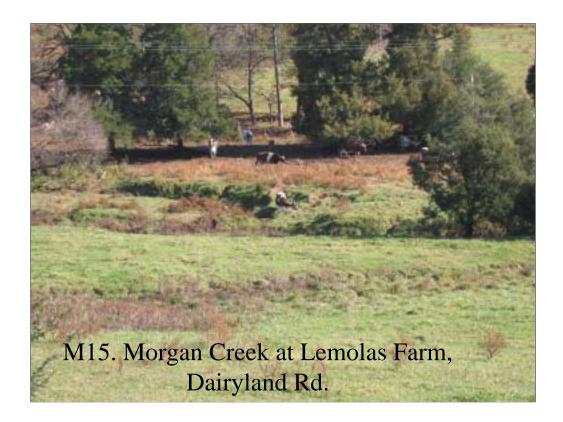
The Bad

Unnamed tributary to Morgan Creek below Dairyland Rd.

Banks high and near vertical, with obvious areas of ongoing erosion Stream significantly incised – floodplain not accessible

Trees falling into stream indicate erosion is ongoing

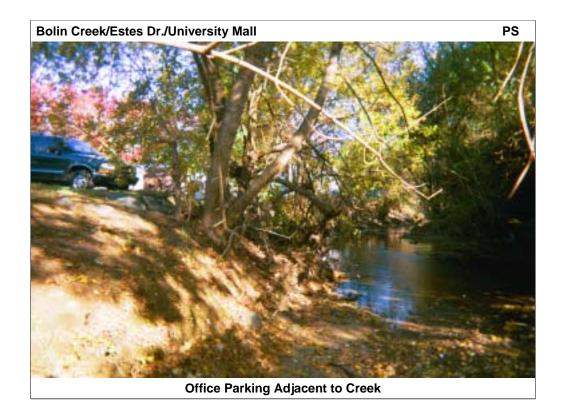
Undisturbed forest cover in floodplain indicates that source of hydromodification may be coming from upstream areas (possibly Lemola Dairy)



The Bad

Morgan Creek along Dairyland Rd.

Riparian vegetation removed and disturbance ongoing
Cattle allowed in stream exacerbating active bank erosion
Stream likely to be incised throughout this section



The Bad

Bolin Creek along Estes Dr./University Mall (not actually in Upper Morgan Creek watershed)

Stream likely to have been channelized in the past

Stream incised throughout this section – floodplain inaccessible

Riparian buffer removed with extensive impervious surfaces immediately adjacent to stream