

Standard Checklist

Name of Riparian-Wetland Area: Hitchcock Creek

Date: June 7, 2004 Segment/Reach ID: Reach 15, (After Bridge 519) PFC 315

Miles: _____ Elevation: 457 ft. GPS: N 36 . 27 . 775 ' W 121 , 43 . 553 '

ID Team Observers: Clive Sanders, Danica Zupic Time: _____

Yes	No	N/A	HYDROLOGY
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1) Floodplain above bankfull is inundated in "relatively frequent" events
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2) Where beaver dams are present they are active and stable
<input checked="" type="checkbox"/>	<input type="checkbox"/>		3) Sinuosity, width/depth ratio, and gradient are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4) Riparian-wetland area is widening or has achieved potential extent
<input type="checkbox"/>	<input checked="" type="checkbox"/>		5) Upland watershed is not contributing to riparian-wetland degradation

Yes	No	N/A	VEGETATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6) There is diverse age-class distribution of riparian-wetland vegetation (recruitment for maintenance/recovery)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7) There is diverse composition of riparian-wetland vegetation (for maintenance/recovery)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8) Species present indicate maintenance of riparian-wetland soil moisture characteristics
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9) Streambank Vegetation is comprised of those plants or plant communities that have root masses capable of withstanding high-streamflow events
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10) Riparian-wetland plants exhibit high vigor
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11) Adequate riparian-wetland vegetative cover is present to protect banks and dissipate energy during high flows
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12) Plant communities are an adequate source of coarse and/or large woody material (for maintenance/recovery)

Yes	No	N/A	EROSION/DEPOSITION
<input checked="" type="checkbox"/>	<input type="checkbox"/>		13) Floodplain and channel characteristics (i.e., rocks, overflow channels, coarse and/or large woody material) are adequate to dissipate energy
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14) Point bars are revegetating with riparian-wetland vegetation
<input checked="" type="checkbox"/>	<input type="checkbox"/>		15) Lateral stream movement is associated with natural sinuosity
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16) System is vertically stable
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17) Stream is in balance with the water and sediment being supplied by the watershed (i.e., no excessive erosion or deposition)

Summary Determination

Functional Rating:

Proper Functioning Condition
Functional—At Risk
Nonfunctional
Unknown

✕

Trend for Functional—At Risk:

Upward
Downward
Not Apparent

✕

Are factors contributing to unacceptable conditions outside the control of the manager?

Yes
No

✕

If yes, what are those factors?

Flow regulations

Mining activities

Upstream channel conditions

Channelization

Road encroachment

Oil field water discharge

Augmented flows

Other (specify) _____



Picture 1



Picture 2



Picture 3

Remarks

This reach is at the end of the urban setting, therefore it has proper vegetation throughout most of the reach (See Picture 1). There is some undercutting and erosion on the downstream right bank, but it looks natural and not severe.

By the houses there was a lot of *Vinca major* along the banks. There are plenty of trees, a lack of grasses, and some bushes by the houses.

There are two areas of concern that make this reach at risk. There is a private bridge leading to four houses (66, 64 and two others unidentified) that is severely undercut, with a large pool downstream of it, followed by an enormous sediment pile (See Picture 3). This undercut bridge and pool are a fish migration impairment.

There is one house downstream of the bridge that has a terraced lawn and a cleared area presumably for a garden but as yet is devoid of vegetation with piles of soft dirt, some of which is falling into the creek (See Picture 2).

There is a pump at the house directly upstream of the undercut bridge.

Reach Ended at N 36,27.719 W121,43.559 Elevation 478ft.

Checklist Comments

#5, 17 There is an excess of sediment throughout the creek. The system is not in balance, evident of the erosion and large sediment dump by the private bridge.

#16 The system is not vertically stable at the bridge where there is undercutting both under the bridge and on the inside corners of the base of the bridge.