

Standard Checklist

Name of Riparian-Wetland Area: Cachagua Creek

Date: July 13, 2004 Segment/Reach ID: Reach 10 PFC 406

Miles: _____ Elevation: 1041 GPS: N 36° 23' 480" W 121° 37' 330"

ID Team Observers: Clive Sanders, Danica Zupic, Ben Eichorn 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"/> | <input checked="" 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"/> | <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"/> | <input checked="" 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"/> | <input checked="" type="checkbox"/> | 15) Lateral stream movement is associated with natural sinuosity |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 16) System is vertically stable |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" 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

| |
|-------------------------------------|
| <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |

Trend for Functional—At Risk:

Upward
Downward
Not Apparent

| |
|-------------------------------------|
| <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |
| <input type="checkbox"/> |

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

Yes
No

| |
|-------------------------------------|
| <input type="checkbox"/> |
| <input checked="" type="checkbox"/> |

If yes, what are those factors?

- | | | |
|---|--|--|
| <input type="checkbox"/> Flow regulations | <input type="checkbox"/> Mining activities | <input type="checkbox"/> Upstream channel conditions |
| <input type="checkbox"/> Channelization | <input type="checkbox"/> Road encroachment | <input type="checkbox"/> Oil field water discharge |
| <input type="checkbox"/> Augmented flows | <input type="checkbox"/> Other (specify) _____ | |



Picture 1



Picture 2



Picture 3



Picture 4

Remarks

This reach begins at the bridge over the county road.

There are healthy alders in the creek, however, there are many dead alders ten feet up the bank (See Picture 1- for healthy conditions).

Cattle manure abounds as do algal blooms in the creek bed (See Picture 2).

There are many undercut banks and large sediment deposits (one instance was ~60 feet. long and 13 feet wide) especially near the trails used by cattle for watering.

There are two wooden summer dams downstream from the cattle trails (See Pictures 3 and 4).

There is an undercut footbridge followed by a concrete ford with a removable metal culvert. This ford was constructed over an old defunct metal culvert that had filled with sediment. This whole structure is now severely undercut and is a severe impediment to migrating fish (See Picture 5).

Twenty yards. downstream there is a large piece of discarded concrete 10' x 15' about 1.5 feet thick.

There is a stacked cobble dam, however, the vegetation is again abundant.

There is consistent seepage throughout the reach and in many instances flow.

A foamy film was found (possibly detergent or septic related).

Upland erosion was observed above the road on the North bank (See Picture 6).

At least four different pools with a dozen or so YOY in each.
The reach ended at N36, 23.50 W 121, 37.58

Checklist Comments

#5,17 There is excess sediment found in this reach especially where cattle presence had been observed.

#14 There is sparse understory in the beginning of the reach. There are dead trees present in close proximity to a private well, and undercutting in many stretches of the creek limits the ability of recruits to establish themselves. (Observed near power pole 144 on Cachagua Road.)

#16 There is excessive erosion on the hillsides above the county road on the north bank, and where cattle trails have been established. (Observed near power pole 144 on Cachagua Road)



Picture 5



Picture 6