

## Standard Checklist

Name of Riparian-Wetland Area: James Creek

PFC 502

Date: July 5, 2004 Segment/Reach ID: Reach 3

Miles: \_\_\_\_\_ Elevation: \_\_\_\_\_ GPS: N 36, 22. 476' W 121, 35. 457'

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"/>		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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6) There is diverse age-class distribution of riparian-wetland vegetation (recruitment for maintenance/recovery)
<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>		16) System is vertically stable
<input 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

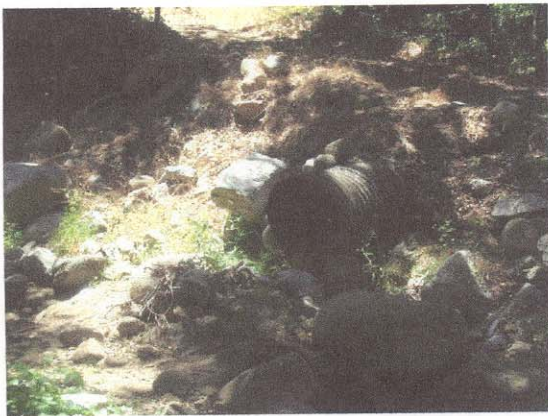
<input checked="" type="checkbox"/>
<input type="checkbox"/>

**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 checked="" type="checkbox"/> Road encroachment	<input type="checkbox"/> Oil field water discharge
<input type="checkbox"/> Augmented flows	<input checked="" type="checkbox"/> Other (specify) <u>Home construction and remodeling</u>	



Picture 1



Picture 2



Picture 3

## Remarks

This reach began ~200 yds west of Tassajara Road marker 14.5, off of driveway 38651. GPS: N 36, 22.476, W121, 35.457

House 38651 was remodeling there are remnants of a concrete foundation fracturing and falling into the creek, a cut down tree and an unstable bank (See Picture 1). There were two other instances on the banks where trees were present but there was a lack of any kind of understory.

There are a lot of upland species present. There are alders, buckeyes, and big-leaf maples present. Willows, smaller species and abundant recruits are missing.

There were at least three different species of algal blooms present in this reach, mostly occurring downstream of a horse trail crossing. There was also a horse arena 50 yds. west of the creek.

There was one significantly sized log jam.

There was one large tributary creek with a large culvert under a driveway at the end of the reach (See Picture 2). There was an old bridge with a gabion under it that is still functioning properly (See Picture 3).

There was flowing seepage throughout this reach.

End of the reach N36,22.645 W 121, 35.535 Elev. 1589

## Checklist Comments

#4 There is an absence of smaller riparian species.

#5, 17 There is excess sediment deposits, especially where the county road runs right next to the creek. There are three instances where bank slides are contributing sediment to the creek.

#6, 7 There is not a diversity in age-class distribution or species composition present in the riparian vegetation; there are no smaller riparian species as much of the area is predominated by upland species. No willows are present.

#9, 11 Banks and point bars without riparian or upland vegetation are increasingly apparent, especially when the county road borders the creek.

#10 The mature riparian tree species present exhibit high vigor however, there are few other riparian species.

#14 The point bars are revegetating but with upland species.

#16 The system is vertically stable except for three specific areas where the creek borders the road creating steeper banks, and at construction sites.