RESTORATE STATE ST

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8.1 Fords and stock watering point

RIVER COLE

LOCATION – Coleshill, Oxon/Wilts border, SU 234935

DATE OF CONSTRUCTION – Autumn 1995

LENGTH – 4 fords and I watering point

COSTS – Fords £Ik each. Watering point £Ik



Stock watering point at ch. 100m

DESCRIPTION

Two new fords and a stock watering point were created in the restored reach of the river downstream of Coleshill mill. Upstream of the mill two new fords were created (see Part 1, figs. 1.1.1 – 1.1.1 Each ford enables livestock to cross the river eas as we as doubling as a drinking place. Those upst more the mill are also ed by farm vehicles and the downstream form part of an ergot rian trail. I though significant milar in the programming of the istignishing the difference of the calvantage of local topogophy.

DESI

Dover eam of mill

All three features were created at locations where the old, straight river course was crossed by the newly excavated meandering course. Each is formed within the old backfilled river course where the soils are loose and susceptible to erosion. Rather than protecting the banks with revetments, each was set back from the true line of the new river by incorporating stoned access ramps (1:6 or flatter) to form either a ford or a stock watering point. As the new river bed at each point is filled to c. 1m above the old bed this too needed to be protected with stone surfacing.

Stock watering point at ch. 100m 7.8.1.1

Located at ch. 100m just downsti in of a sharp bend in the new river course there wing in fle of gravel was expected form. Is hyou the condition, combined it in eareful intouring of the adjace. Fire tanks, he to avoid the risk of siltant that ill to often end, watering points useless. It is an inclining around the ramp is ind into the key fencing on either side, as well as a coss the river, to form a secure field boundary point.

The river fencing comprises a single heavy wire cable strained tightly across on a diagonal line (see photograph). The extra length of the diagonal renders the cable less likely to form a complete blockage of the river if floating debris becomes snagged on it. The angle of the diagonal is aligned to direct turbulence caused by its presence towards the mouth of the watering point, further reducing the risk of siltation.

The ramp, its upstream flank, and the river bed are all formed over compacted fill, and flat surfaces are covered with stone over a filter fabric.

The ford at ch. 280m (fig.8.1.2)

Aligned between three mature trees on the old river bank to create an 'S' shaped feature, it crosses the new river bed on a long diagonal (c. 15m compared

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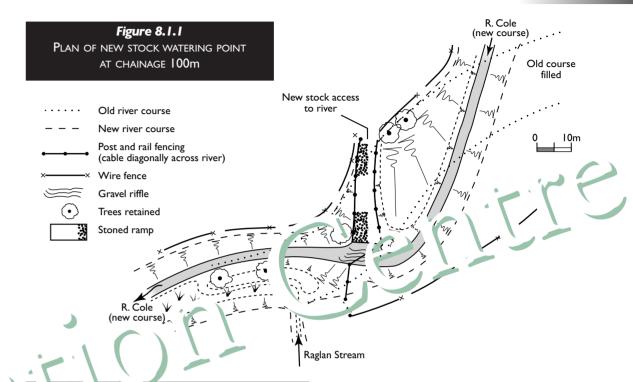


Figure 8.1.2

PLAN OF NEW FORD

AT CHAINAGE 280m

with the typical bed width of c. 3m). The position of this diagonal approximates to the likely position at which a self-sustainable point bar of gravel would form, because of the sharp bend just upstream.

Most of the ford is formed within the old backfilled river channel, which is carefully contoured to create smooth transitions with undisturbed ground on both sides of the river, as well as with the root levels of the three trees and with the newly excavated channel. The river bed and ramps are surfaced with stone over a filter fabric to suit livestock rather than heavy vehicles.

Ford at ch. 280m

R. Cole (new course)

New ford

Old course (backwater)

The second secon

Resident State & contact

These techniques were developed to suit site specific criteria and may not apply to other locations

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