



Mire restoration using vegetation clearance

Costs

Machine/ Equipment	Hire		
ATV	26 days	£1,300	
360 Excavator	14 days	£4,480	
Excavator transport	Drop/Collect	£228	
5 tonne digger	8 days	£675	
Digger transport	Drop/Collect	£160	
6 tonne dumper x 2	10 days	£595	
Dumper transport	Drop/Collect	£200	
2000L fuel bowser		£228	
Materials			
Clay	20.92t	£157	
Gravel/Hoggin	165.74t	£1,260	
Chestnut posts	60	£90	
Heather Bales			
(cut, baled & hauled			
by local contractor)	5520	£12,695	
Labour			
Contract (9 hr day)	50 days	£6,000	
Partner	28.5	£2923	
Sundries			
Archaeological Site Marking		£50	
Hire Barriers		£96	
Movement of clay from Holmsley			
Inclosure to Stoney Moc	ors	£272	
Scrub management & vegetation clearance			
Scrub management		£5,300	
Scots Pine & Invasive Scr	ub		
Clearance	(2.64ha)	£3155	
Extraction of felled broa	adleaves	£2,300	
TOTAL		£42,164	

CASE STUDY 3: HOLMSLEY INCLOSURE STREAM RESTORATION

Background

Holmsley Inclosure is located approximately 2 km south of Burley (SU 224 004). It is a diverse Inclosure supporting a range of woodland types and open habitats giving rise to a wealth of botanical and invertebrate interest. Historically, the forked valley through Holmsley Inclosure was a large, continuous mire from Holmsley Bog in the east upstream to Cardinal Hat in the north and Stony Moors in the west. Since the creation of the Inclosure there has been extensive drainage works carried out in the 1930's & 1940's. Subsequently some of these drains have become very incised, eroding substantial volumes of gravel from the banks and beds which has been washed downstream. In addition to plantations there has also been encroachment by willow, birch and alder as the water table has lowered in response to drainage.



Deeply incised channel

The works

- 8.8 hectares of scrub management and vegetation clearance
- Raising of bed levels for approximately 500m in the existing Stony Moors stream between the Inclosure boundary and the fords on the public road. Levels were raised to within 0.4m of the surrounding floodplain to restore winter flooding on the flood plain. This was achieved using clay plugs and backfilling with imported hoggin and available bank spoil. Due to the steep gradient additional support was given to the infill in the form of log weirs, oak boards and live willow.
- Side drains were blocked with spoil except those that supported prime butterfly habitat.



Bed level raising in progress



Use of log weirs to support bed material

Costs

Machine/ Equipment Hire		
360 Excavator (13T)	153 hours	£3,595
Excavator transport	Drop/Collect	£228
Case 130 Excavator (13T)	178.5hours	£4,195
Transport	Drop/Collect	£180
8 tonne tracked dumper	15 days	£3,030
Dumper transport	Drop/Collect	£180
2000L fuel bowser		£228
Pump & hoses	13 days	£964
Pumps & hose transport	Drop/Collect	£80
Materials		
Clay	463.47t	£3,476
Gravel/Hoggin	1157t	£8793
Oversize rejects	62.7t	£891
Chestnut posts	60	£90
Heather Bales		
(cut, baled & hauled		
by local contractor)	5520	£12,695
by local contractory	3320	112,055
Labour		
Contract (9 hr day)	14 days	£1,400
Dumper driver	95 hours	£1,259
Chainsaw operator	42 days	£3,360
Sundries		
Archaeological Site Marking		£50
TOTAL		£44,694
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CASE STUDY 4: MARKWAY STREAM RESTORATION

Background

Markway Stream restoration focused on a 1300m section of the Ober Water upstream and downstream of the A35 Markway Bridge. This section of river has been channelised for land drainage since at least 1870. Since the move away from maintenance of a rigorous drainage regime the engineered channel downstream of the A35 has infilled with gravels, silts and woody debris causing the river to migrate from the main engineered channel into a series of multi-thread channels. These channels are poorly defined and have a limited flow capacity resulting in poor drainage of the floodplain lawn and a perceived reduction in drainage quality.

The aim of the project was to develop a restoration scheme for the river that would balance the Commoner's aspirations for floodplain grazing with the conservation objections of the New Forest SAC.









Above L - Former channelised channel upstream of A35

Above R – Infilled channelised reach downstream of A35

Left – Diffuse flow downstream of Markway bridge where river is migrating from former engineered channel