NRA NORTH WEST 71



NATIONAL RIVERS AUTHORITY North West Region

Northern Area

Land Drainage Consent Report Investigation of the conservation input into

Investigation of the conservation input into Land Drainage Consents.

C.A. Stewart Jul/Aug/Sept'93

MRA NORTH WEST 71

ANNEX TWO

			NW: WAR: RE	NW:WAR:RFH:FSH:EC:109			
				Anage consent investigation 1 ac			
SUMMARY		 			2		
INTRODUCTION.		 • • • • • •		Page	3		
REPORT FINDIN	GS	 		Page	4		
APPLICATION S	YSTEM	 		Page	8		
CONCLUSION	• • • • • • • • •	 		Page	10		
ANNEX ONE							

SUMMARY.

Over the years the National Rivers Authority (NRA), have granted approval for work to be carried out in and near water courses. Some of these works have had a conservation interest. It is these that were to be followed up. The purpose of which was to see wether the work had been carried out in accordance with the Land Drainage Consent (LDC) form. These are issued after applying to the NRA before work can commence and are valid for 3 years.

INTRODUCTION .=

The brief for this project is to investigate whether the conservation elements of "Land Drainage Consent" have been carried out as stated on the consent given by the NRA.

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The period covered by this report ranges from the beginning of 1990 through to a suitable cut off in 1993 (or earlier if applicable). 40 sites were chosen from the northern area, this gaves a broad cross section of the types of river work, which have a Conservation interest.

Tables one and two summarise the information collected on the site visits.

Of the forty sites visited, 62.5% of sites had completed the work proposed on the LDC, 22.5% were in progress, whilst 15% had yet to start the work.

The two articles of legislation that apply to LDC are section 23 of the Land Drainage Act 1991 and sections 109 and 110 of the Water Resources Act 1991. These mean that no one can do any type of work in a "main" river without the consent of the NRA, while culverting and damming operations in "ordinary" rivers need the approval of the NRA.

The NRA issues consent for work to be under taken, under the Land Drainage Act of 1991 and where applicable its own Byelaws. Any additional conditions by the NRA to the Consent are laid out on the Consent form.

Consent is approved or refused after submission of form FD1, "Application for works in rivers". Comments are made from Fisheries, Conservation, Flood Defence and Water Resources (via Licensing) before final approval. If approval is not forth coming within two months of receipt of the aplication, the application can be deemed as approved.

Two tables have been produced, in order to summarize the information contained in the site visit reports. Table One covers applications to the Carlisle office, while Table two covers the applications to the Levens office.

The layout of this report presents first, the findings of the site visits. Details of each site visit are contained in Annex 1, which list the sites as per tables one and two. Attached to the site reports are photographs and diagrams of the sites. The diagrams are based on plans submitted with the application or drawings made at the time of the visit.

Apologies are made for the quality or lack of it in some of the photographs, this was due to a technical problem with the camera.

Annex 2 contains a list of the problem sites that were sent to Flood Defence.

TABLE TWO.

Report	Consent	Date of	Location	Waten	Work	Re-apply	Comments *
»No.	* No	Consent	10.5	Course	Complete	Date	
21	490/586	15/2/91	Kirkby	R. Lune	Yes		Gabion type works after
		25/3/92	Lonsdale	<u> </u>			land slip.
22	496	15/3/91	Kirby-in-Furness	Gill House Beck	Yes		Obvious Concrete structure.
23	500	26/3/91	Bowston	R. Kent	No	1994	Works in progress.
24	504	29/4/91	Sedbergh	R. Rawthey	Yes		River bank repair.
25	535	18/9/91	Low Bentham	R. Wenning	Yes		River bank repair:
26	554	9/1/92	Greenodd	R. Crake	No	1995	Works in progress.
27	558	21/1/92	Steps Farm	Birk Beck	Yes		Retaining wall repair.
28	565	12/2/92	Caton	R. Lune	Yes		Bank profile different to
							surrounding bank.
29	573	14/1/92	Muncaster	R. Esk	Yes		Pipeline river crossing.
30	591	5/6/92	Satterthwaite	Rusland Pool	Yes		Pipe protection, no topsoil.
31	605	27/7/92	Clappersgate	R. Brathay	Yes		Retaining wall to footpath.
32	611	27/7/92	Bowston	R. Kent	Yes		Gabion acceptable:
33	612	11/8/92	Windermere	Mill Beck	Yes		Crayfish site.
34	622	23/9/92	Holmrook	R. Irt	No	1995	No Gabions.
35	629	4/11/92	Staveley	R. Kent	Yes		Half a span cemented.
36	677	25/5/93	Troutbeck Br.	Troutbeck	No	1996	Works in progress.
37	693/I	25.5/93	Dunnerdale	Tarn Beck	Yes		No topsoil.
38	693/II	25/3/93	Eskdale	R. Esk	No	1996	Half the work complete.
39	697	7/8/93	Muncaster	R. Esk	No	1996	See application 447
40		17/10/91	Kirkby Lonsdale	R. Lune	Yes	0	Japanese Knotweed
							present.

TABLE ONE.

Report	Consent	Date of	Location	Water	Work	Re-apply	Comments
No.	No	Consent		Course	Complete	Date	
1	B063	1/2/90	Willow-	R. Eden	No	1993	Needs to re-apply.
			Holme				
2	B092	25/5/90	Dovenby	Carr Beck	Yes		As per NRA reg's.
3	B129	28/8/90	Dalston	R. Caldew	Yes		As per plans.
4	B168	4/3/91	Gretna	R.Sark	Yes		As per NRA req's.
5	B172	3/4/91	Pooley Bridge	R. Eamont	No	1994	Not done
6	B176	23/4/91	Kirby Thore	Keld Sike	No	1994	No work planned until 1995.
7	B192/1	4/7/91	Longtown	R. Esk	Yes		Same repair in both cases.
8	B193/6	9/7/91	Scotby	R. Eden	Yes		
9	B201	26/7/91	Cockermouth	Tom Rudd Beck	No	1994	No outfall, other work in
							progress.
10	B215	21/8/91	Pooley Bridge	R. Eamont	Yes		Stone steps added.
11	B227	15/10/91	Carleton	R. Petteril	Yes		Bank repair.
12	B230	17/12/91	Harraby	R. Petteril	No	1994	Work partly complete.
13	B248	12/12/91	Blackdyke	Rockcliffe Beck	No	1994	Non-natives planted, but last
							years whips died.
14	B250	17/12/91	Whitehaven	Mirehouse	No	1994	Alterations not started.
				Reservoir			1 G
15	B292	26/2/92	Ennerdale	R. Ehen	No	1995	Plantings as per NRA req's, more
						·	to come.
16	B313	28/4/92	Crosby	R. Eden	Yes		Difficult to see due to vegetation.
17	B332	29/6/92	Borrowdale	R. Derwent	Yes		Tree planting & fencing.
18	B349	27/8/92	Durranhill	Durranhill Beck	Yes		Slightly above ground level.
19	B389	25/1/93	Workington	R. Derwent	No	1996	Work continues.
20	B438	19/4/93	Harrington	Harrington	Yes		Willow stakes are taking, slight
				Reservoir			erosion.

REPORT FINDINGS.

1/ SITE VISITS.

1.1/ On the whole, the majority of works have been carried out as shown on the proposal for LDC. Alternatively they have followed the conditions of the NRA on the Consent form.

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- 1.2/ The main criticism found on many works is the addition of plastic outfall pipes, some of which have not been covered. This is both unasthetic and unprofessional on the part of whoever did the task. Typical sites were:-
- i/ Carlisle(12/B230)* (P)
- Plastic pipes protrude for up to 1 mtr.the bank.
- ii/ Kirkby L/dale(21/490/586) (C)
- Plastic outfall pipe running above ground level to the waters edge.
- iii/ Steps Farm(27/558)
 (C)
- Two pipes sticking out that were not shown on the plans.
- 1.3/ Other points that were picked up were obstructions to the river channel, both in and above the water. Below are three such sites:-
- i/ Dalston(3/B129) (C)
- Barb wire strung across the entire width of the river.
- ii/ Carlisle(12/B230) (P)
- Additional fencing to deter thieves, extended from existing fencing out over the water.
- iii/ Pooley Bridge(10/B215)
 (C)
- Set of stone steps not shown on plan, extend into the river.

None of these were included in any of the plans submitted to the NRA, these are presumably illegal works and whoever carried them out should be brought to task.

- 1.4/ Whilst visiting some of the sites, other problems adjacent to the site, were identified. These included trees across rivers, poor re-instatement after temporary works, exposed pipes and tipped material. Below are some of the site where these can be seen:-
- i/ Gretna(4/B168) (C)

- Tree across R. Sark and tipped building/road waste to repair R.bank.
- ii/ Scotby(8/B193(6)) (C)
- Concrete and rubble, tipped. (R.Eden).

^{* -} Site No. and LDC reference No.

^{0 - (}C) works complete, (P) works in progress, (N) works not started.

- iii/ Crosby-on-Eden(16/B313) Exposed pipe and tipped material (garden compost, Limestone cobbles).
- iv/ Windermere(33/612) (C)
- Exposed and broken Concrete outfall pipe, immediately adjacent to the work.

These were not necessarily related to the LDC for which the site visit was intended. However it is hoped that this report goes some way to identifying this problem.

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- 1.5/ Follow up visits to sites whilst work is in progress is to be recommend, as it appears many LDCs have been issued with little back up action. Nothing is done to rectify problems that occur until someone, either reports it in passing or it causes a problem that comes to the attention of the public.
- 1.6/ Perhaps the NRA is fortunate in that, those who apply for LDCs do not realise, that presently very little is done to supervise any NRA requirements stated on LDCs.
- 1.7/ Some of the sites visited were to inspect re-instatement work, this has been done by both national and local organisations, as well as private individuals. Repairs have been carried out using Blasted rock, pitched to form a retaining wall. Alternatively the river bank has been landscaped to match the profile of the existing river bank.
- 1.8/ The style of repair was dependent on the rate of erosion that the bank would be subjected to. Regrading on the inside of the bend of a river where erosion would be least, Blockstone on the outside of the bend where erosion would be greatest. Below are examples of sites where such work has been carried out:-
- Dalston(3/B129) i/ (C)

- Limestone block have been used to protect bank and footpath/access track.
- ii/ Longtown(7/B192) (C)
- Pipeline cross river, "blasted" stone (irregularly shaped quarried rock) has been used on the E. Bank to replace the river bank. The W.bank has been regraded to match the low profile of the inside bend of the river.
- iii/ Carleton(11/B227) (C)
- A footpath had been eroded to such an extent that it had collapsed into the river. The repair has been carried out using large "blockstone" (rock that has been shaped).
- 1.9/ Other methods of bank re-enforcement are "Raddling", using Willow stakes placed at one meter intervals and inter woven coppiced Willow. These eventually grow, providing good cover for

wildlife as well as stabilizing the river bank:= -= -

- i/ Harrington(20/B438)
 (C)
- Raddling has been used here to protect a beck ealignment. At the time of the visit they appeared to be doing well.

1.10/ Gabions, on most occasions are viewed with disapproval, on landscape grounds and that they do not provide a permanent solution. The metal cages eventually corrode and the small stone filler is washed away quickly. There are however sites where Gabions or there equivalent are in use:-

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i/ Bowston(32/611) (C)

- Gabions have been approved for use as a retaining wall, they are on the inside of the bend in the river and not easily visible.
- ii/ Greenodd(26/5540) (P)
- Gabions are in use, despite LDC stating that they are not be used. Around the new bridge gabions are being faced with Limestone blocks.
- iii/ Holmrook(34/622)
 (N)
- Gabions have been opposed for this repair, although gabions have been placed on either side previously.

1.11/ Tree planting operations have been carried out on a number of the sites for various reasons. These include restoring a river bank as part of and after stabilization work has been carried out. Trees are also planted to enhance the natural landscape of a river bank. Tree planting has been carried out in conjunction with woodland grant schemes and as part of land reclamations schemes. Below are some of sites where tree planting has taken place:

i/ Dovenby(2/B092) (C)

- Tree planting on a former open cast mining site.
- ii/ Blackdyke(13/B248)
 (P)
- A tree planting scheme that runs beside a Beck to form a shelter belt. Unfortunately a lot of the plants died.

Some of the trees here are introduced species, which the NRA's Conservation department would not have sanctioned.

- iii/ Borrowdale(17/B332) (C)
- A tree planting and fencing exercise along the top of previous bank stabilization work.
- iv/ Sedbergh(24/504)
- Replace trees after river bank

- (C) ____ stabilization work.
- 1.12/ A suggestion here would be to supply a list of approved (native) species to applicantions involving tree plating schemes

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- 1.13/ In the southern area of Cumbria it was noticed that the County Council was undertaking pointing and grouting work on road bridges. English Nature were to be informed, with regard to roost sites for Birds and Bats. Applications for this type of work were noticeably absent in the north of the county. Two sites were:-
- i/ Staveley(35/629) (C)
- Cementing of the E.arch.
- ii/ Muncaster Br.(39/697)
 (N)
- Signs of earlier work, some gaps left in masonry.

2 SUMMARY OF SITE VISITS.

2.1/ Summary of the site visit findings:-

Work completed - 62.5% Work in progress - 22.5% Work not yet started - 15 %

2.2/ From the above figures it can be seen that approximately 60% of the applications between 1990 and 1993 have been completed. Of that figure 76%(19 sites) have successfully completed the work as per the LDC application. This represents 47.5% of the 40 sites visited.

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- 2.3/ The other 24% (6 sites) have either done something completely different or there has been a modification to the original plan, two example are given below:-
- i/ Pooley bridge(10/B215) stone steps(para.1.3/iii)
- ii/ Clappersgate(31/605) A retaining wall not shown on (C) the plan and is within 8 mtrs of the water course.

Sites such as these, represent 15 % of the total sites visited.

- 2.4/ However it is not always true that completed works, even if their construction meets with NRA approval, blend harmoniously with their surroundings. There are guidelines available on sympethetic headwall design. The NRA require that local stone is used for construction or for facing of concrete structures. The outfall listed below is one such:-
- i/ Kirkby-in-Furness(22/496) Concrete construction standing (C) 600mm proud of the surrounding grass bank.
- 2.5/ 22.5% of the applications are presently in progress with the works at different levels of completion. Some sites appear somewhat different to their application and are worthy of a furture visit, eg:-
- i/ Carlisle(12/230) see paras 1.2/i and 1.3/ii
- ii/ Troutbeck Bdg(36/677)
 (P)
 A retaining wall appears to be an extension to car park, which was opposed on conservation grounds.
- 2.6/ The remaining 15% have yet to be started. One site, at Willow Holme, Carlisle, needs to re-apply for Consent which has now lapsed. Tables one and two show the dates when operators need to re-apply.

3/ APPLICATION SYSTEM.

3.1/ Within the NRA the system for storing LDC information, could be described as somewhat muddled. There are differences between the two offices at Levens and Carlisle, both have good points as well as poor points.

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- 3.2/ Carlisle has a very comprehensive filing system, being able to go straight to consents. However to find out if there are more Consents linked to the one being sort, then an index has to be consulted in another office. A data base is in use at Carlisle and certainly helped when choosing sites to visit for this report, otherwise it would have meant laboriously looking at every Consent.
- 3.3/ Levens has copies of the consents filed numerically, this made life easier in finding a Consent after consultation of the Conservation Officers Consents book. This contained useful comments from site visits as well as recommendations prior to the Consent being issued. Where Levens falls down is the filing for the LDCs, some are allocated an envelope which has the LDC number and brief description and put in the filing cabinet, no bad thing in itself. When it came to finding them many had gone. Some were being investigated by other people. others which do not contain much paper are stored in the relevant river file.
- 3.4/ A suggestion would be to have some form of control to the LDCs coming and going, for example a register for booking LDCs in and out. Like Carlisle all Consents could be stored together, irrespective of the size of document.
- 3.5/ Further to the above, a data base could be built up, this would enable all information regarding a particular river or site to be found easily. Made available through the computer network particular LDCs can be identified. If then all the paper work was to be stored centrally, then it would be possible to request a particular Consent and keep control of its location.

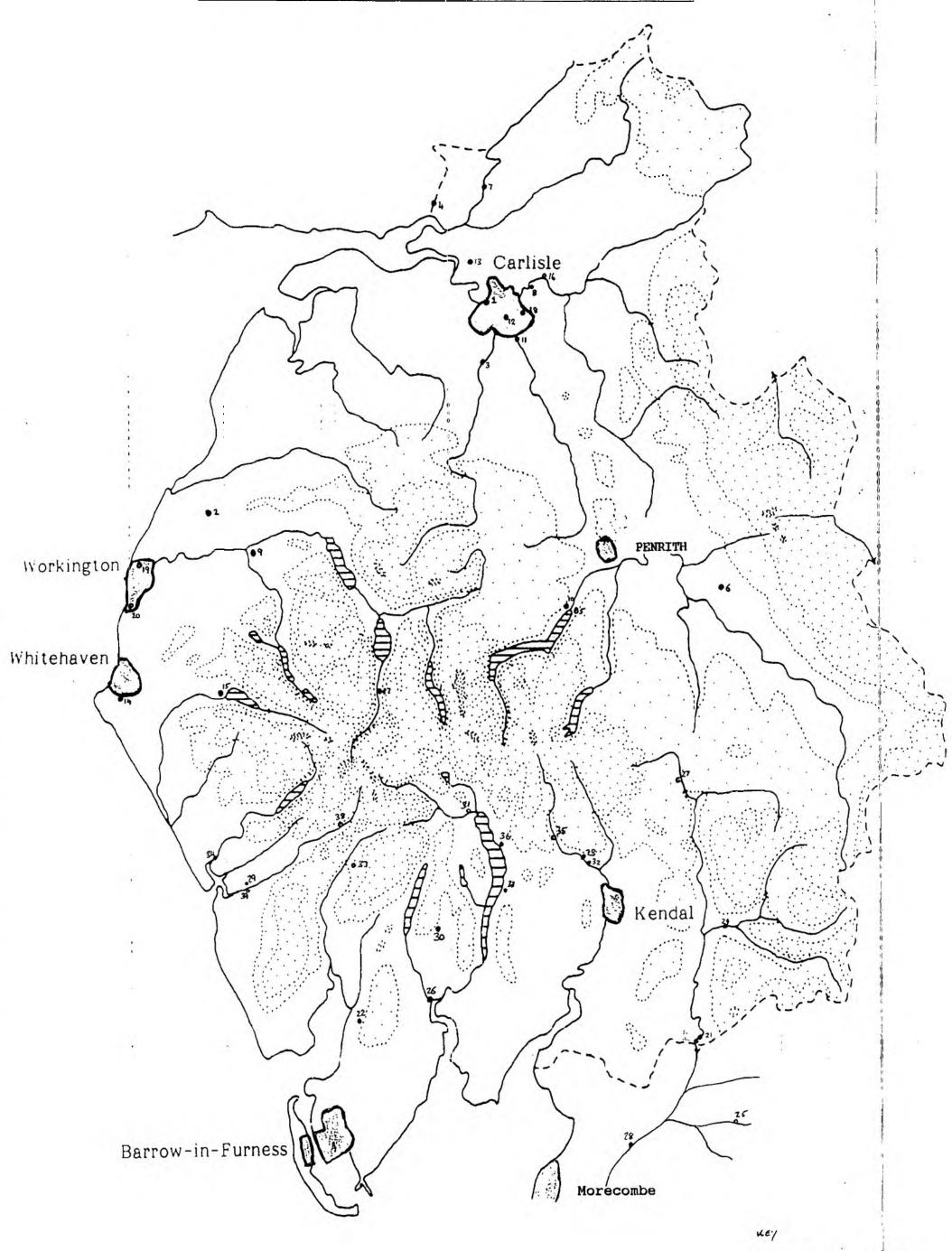
4/ CONCLUSION.

- 4.1/ Perhaps the biggest concern that should be brought to light is the lack of follow up action regarding LDCs.
- 4.2/ Of the 40 sites visited it has been established that a total of 15% have not yet started the works for which they applied. This indicates that 85% of the applications are in operation or completed.
- 4.3/ Out of the 85%, 15% of sites were found to have something different or an alteration to that stated on the LDC, this is in breech of the law. With a greater input from the NRA during or immediately after completion of the works, the percentage of operations carried out as per LDCs should increase.
- 4.4/ To date no one has been prosecuted in the northern area of the north west region for an infringement of an LDC.
- 4.5/ If more sites were visited as work is carried out the profile of the NRA would be raised and as word would spread amongst operators then hopefully less breeches of the law would occur.
- 4.6/ If out of the 40 sites there are at least 10 sites that have a problem with either the LDC or a related problem, then how many other sites are in a similar state in the northern area or for that matter the whole of England?
- 4.7/ A review of the storage arrangements of the documentation of the LDCs would be in order. A standard method could be set up in the northern area of the north west region NRA. Certainly the creation of a data-base, purely for LDCs would be most useful.
- 4.8/ One thing that could be improved on and promoted is a register such as that in the Levens office, recording comments in more detail from the conservation point of view. This does not have to be confined to the Conservation office it could be used in other departments as well. The present system should work even better if LDC reference numbers were to be included.
- 4.9/ The card system, which is used to inform the NRA when works are commenced and completed, goes some way to redressing the problem. However if there is insufficent man power then this sytem wil not be worth the paper it is written on.
- 4.10/ The main point drawn from this report is the lack of a backup procedure to LDCs issued by the NRA. If they are not followed up, then the legislation related to LDCs is virtually useless.

ANNEX ONE

SITE VISIT REPORTS

SITE LOCATION MAP



021 - SITE LOCATION , ANDOLT

1/ SITE VISIT: - B063 - Willow Holme, Carlise. - -

NGR NY 386 566

Conference is a source of the contract of the

DATE:-

12/8/93.

WATER COURSE AFFECTED:-

R Eden.

APPLICATION: -

1/2/90

1/ Divert footpath and landscape river

bank.

CONSERVATION NOTE: -

1/ Inert material only for access strip,

no demolition material.

2/ Batter of bank to be protected by

placed, not tipped, stone.

COMMENTS:-

1/ The work outlined on the LDC has not yet been undertaken, save for some recent planting

on mounds at the E. end of the site.

2/ The trees planted are:-Ash, Fraxinus excelsior. Birch, Betula pendula. Alder, Alnus glutinosa.

Weeding has taken place around the planting, mainly Himalayan Balsam, Impatiens glandulifera. This has been cleared to the base of the

mounds.

3/ It should be realised that LDC's are valid for only 3 years.

B092 - NCB opencast site, Dovenby.

NGR NY 078 340

DATE: -

18/8/93

WATER COURSE AFFECTED:-

Tributary of Carr Beck

were replacement a bangain to be assumed a place of the control of

APPLICATION: ~

25/5/90

1/ Restoration of water course.

CONSERVATION NOTE: -

Work to be in the dry, to prevent silt

from entering Carr Beck.

COMMENTS: -

1/ By the drawing the original intention was for the tributary to run directly down the hill into the Beck.

2/ The line of the water course is as shown on diagram 2, descending gently southward to meet Carr Beck.

3/ Tree planting is as per plan, glades can be seen amongst the young Alder, Alnus glutinosa.

4/ Stock proof fencing topped by double strands of barbed wire runs along the E. bank and also protects the site.

5/ A hedgerow of Hawthorn, <u>Crataegus Monogyna</u>, has been planted along the N. side of the site.

6/ Where the tributary meets Carr beck a small pond has formed on the low lying ground. This may be deliberate, perhaps a silt trap?

7/ Small clumps of Willow, Salix sp, were seen in this damp/wet area.

3/ SITE VISIT: - B129/197 - The Nestle Co. Ltd.

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NGR NY 382 515

DATE: -

12/8/93.

WATER COURSE AFFECTED:-R. Caldew.

APPLICATION: -

28/8/90

1/ Reconstruction of access

track to river.

CONSERVATION NOTE: -

Additional planting as agreed by

NRA Conservation officer.

COMMENTS: -

1/ The improvements to the bank have been carried out, the height of the track appears to have risen approximately 1 mtr. above the original level. Where the river bank has been eroded Limestone blocks have been used to replace the bank.

2/ The mature trees along this stretch of river have been retained, with the stone from the improvement work pitched around them.

3/ A small plantation at the N. end of the works consists of Oak, <u>Ouercus robur</u>, Cherry, Prunus avium, Alder, Alnus glutinosa, and Willow, Salix sp. These are surrounded by a stock proof fence, topped with barbed wire. Some work is needed as the those trees in "Tullie" tubes are well above the height of the tubes. Otherwise general weeding is required.

4/ New planting on a lesser scale has taken place at the S. end, behind the mature trees. These appear to be younger trees, possibly planted a year later when river bank repairs were carried out in 1991, (LDC197)

5/ During the site visit two strands of barbed wire were seen to have been strung across the river from the N. end of the plantation mentioned in para. 3. Mr Luckly was informed of this. NGR NY 3850 5155.

B168 - Gretna.
NGR NY 327 672

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DATE: -

10/8/93.

WATER COURSE AFFECTED: - R. Sark.

APPLICATION: -

4/3/91

1/ Gabion protection to river bank.

CONSERVATION NOTE:-

No to Gabions and not to build into the riverbank.

COMMENTS:-

- 1/ Shown around by a Mr. G. Payne, tennant on the site.
- 2/ As per the consent, Gabions have not been used and the profile of the works follows that of the river bank.
- 3/ Blasted rock forms the face of the banking, smaller stone has been used as infill behind.
- 4/ Existing "Mattress" has been used to reenforce the river bank, this runs E. towards the M74 road bridge.
- 5/ At the E. end of the re-enforcing work a fallen Willow, Salix sp. extends across the river, almost to the N. bank.
- 6/ On the original drawings Terram or similar was to be used between the top of the Gabions and the top soil. There is no sign of it being used.
- 7/ The S. bank, W. of the M74 road bridge, has been re-instated with tarmac and rubble following its use as a ramp during the construction of the above road bridge. The river is also shallower now, than before the work was carried out. NGR NY 328 672

B172 - Ullswater, Pooley Bridge. ----

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DATE: -

13/8/93

WATER COURSE AFFECTED:- R. Eamont.

APPLICATION: -

3/4/91.

1/ Tree planting scheme.

CONSERVATION NOTE:-

Native species should be planted.

COMMENTS:-

1/ The owner of the site was contacted to establish whether to work was done or not, The tree planting scheme has not yet been carried out yet.

2/ It should be realised that LDCs are valid for only three years.

B176 - British Gypsum Ltd.

NGR NY 654 256

DATE:-

13/8/93.

WATER COURSE AFFECTED: -

Keld Sike.

APPLICATION: -

23/4/91

1/ Construction of Culvert.

CONSERVATION NOTE: -

Restoration of ditch/stream to be

agreed in detail with NRA.

COMMENTS:-

1/ No work has been undertaken on this site to date. The reason given was that although planning permission has been obtained British Gypsum Ltd as still waiting for confirmation from Customer. No work on the site is planned until at least 1995.

2/ It should be realised that LDCs are only valid for three years.

B192/1 - Northwest Ethylene Pipeline. NGR NY 379 695

DATE:-

10/8/93.

WATER COURSE AFFECTED: - R. Esk.

APPLICATION: -

4/7/91.

1/ N.W.E.P. river crossing.

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CONSERVATION NOTE: -

Re-instate the banks to NRA requirements.

COMMENTS: -

1/ Pipes appear to be approximately 10 mtrs. to the S., compared with the line drawn on the plan.

2/ Bank re-instatement, 25 mtrs. along the E.bank, the stone is laid in five to six courses with a footing of sandstone bed-rock.

3/ From the plan, trees are shown on the E.bank. they are no longer there as a result of 1/, there is no sign of replacements. Would roots interfere with the pipeline? No mention in application or on the Consent.

4/ The excavated areas have been profiled to match the surrounding land, however the scars still remain. More obvious on the E. bank rather than the W. bank.

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DATE: -

12/8/93

WATER COURSE AFFECTED: -

R. Eden.

APPLICATION: -

9/7/91

1/ Under river crossings of pipeline.

CONSERVATION NOTE: -

Banks to be re-instated as per NRA requirements.

COMMENTS:-

1/ The N. bank has been regraded to conform with the line of the river bank. The pipeline route is visible in that the repaired section is sloped into the river rather than stepped, like the bank on either side

2/ The Sbank has been reinstated using blasted rock pitched in eight to nine courses, for a length of 25 mtrs. the work has been profiled to match the existing bank on either side of the repair.

3/ 50 mtrs. upstream a ramp like structure extends into the river for 5 mtrs. from the river bank.

4/ 25 mtrs. upstream, concrete, large rubble and large pieces of metal have been used at some time in the past, as either bank reenforcing or have been dumped.

B201 - Cockermouth.

Description of the contract of

DATE:-

19/8/93

WATER COURSE AFFECTED: -

Tom Rudd Beck.

APPLICATION: -

27/9/91

1/ Surface water outfall.

CONSERVATION NOTE: -

Work to be carried out in line with NRA guide-lines.

COMMENTS:-

1/ No outfall has yet been constructed. The road works and adjacent buildings are well advanced.

2/ The bank of the river has a small ruined
retaining wall, set 2 mtrs. back from the
waters edge. It is now overgrown by Cypress exotic Conifers. They do however screen the Saw
Mill on the S. bank from the houses.

3/ If the outfall is not constructed in the near future then a new Land Drainage Application will have to be made. LDC are valid for only three years.

10/ SITE VISIT:- B215 - Riverside, Pooley Bridge.
-NGR-NY 468 243

DATE:- 13/8/93

WATER COURSE AFFECTED: - R. Eamont.

APPLICATION: - 21/8/91

1/ Construction of retaining wall

and the second of the second o

CONSERVATION NOTE: - 1/ No cement leachgate and no silt

generation during construction.

<u>COMMENTS:-</u> 1/ Local stone has been used in the construction of the retaining wall.

2/ A set of steps have been added, near the

S.end of the house from the top of the

retaining wall into the river

B227 - Carleton. NGR NY 424 528

the second of the properties of the second o

DATE: -

16/8/93

WATER COURSE AFFECTED: - R. Petteril.

APPLICATION: -

15/10/91

1/ Repair eroded river bank.

2/ Re-instate footpath.

CONSERVATION NOTE: -

1/ Clean large stone only.

2/ Walled, not dumped onto river bank.

3/ Any disturbance of trees or vegetation

to be agreed by NRA Conservation Officer.

COMMENTS: -

1/ Repair carried out using large blocks of stone (Sandstone).

2/ Footpath re-enstated and Hawthorn, Cretaegus

monogyna, planted to help re-instate the

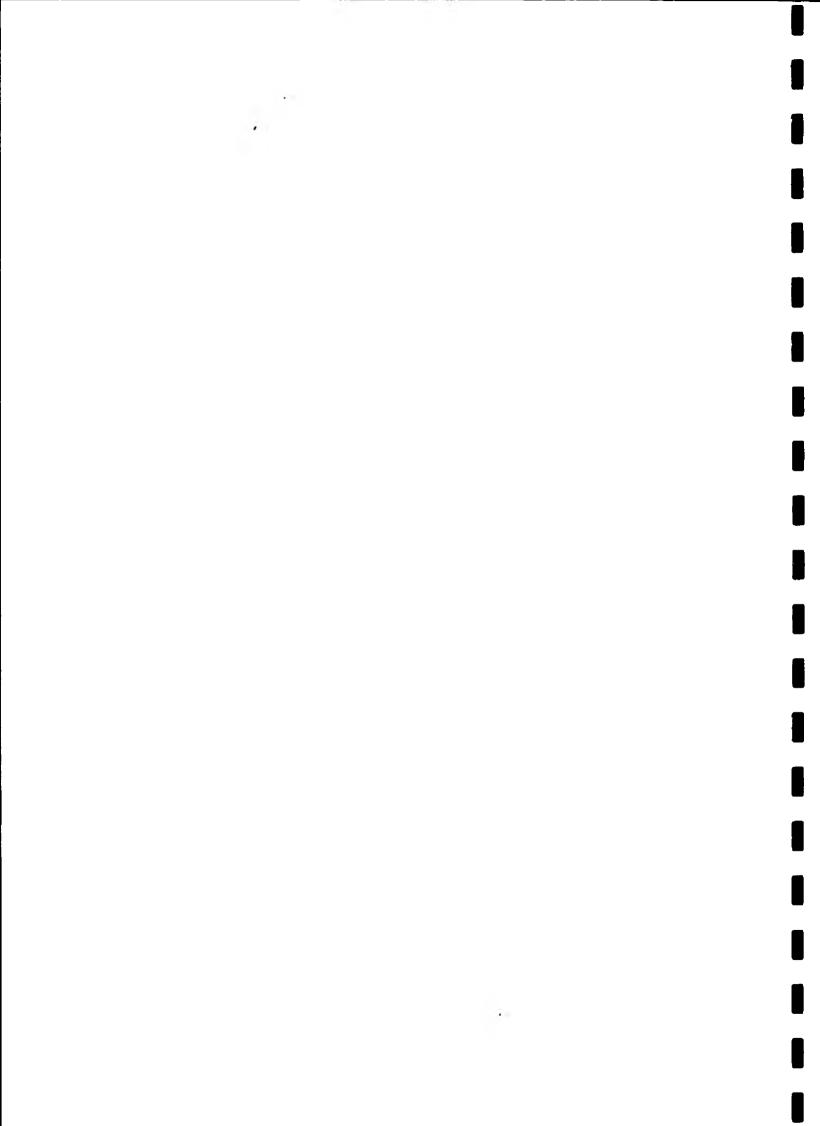
hedgerow.

3/ The stone work is profiled to that of the

existing R bank, the N. 5 mtrs. or so is

relatively free of vegetation. The rest is well

vegetated beside the footpath.



B230 - Harraby Green Business Park.

-NGR-NY 414 544 -- --

mental and trade on the same while a trade of the edge of the edge of the edge of the same of the edge of the edge

DATE: -

9/8/93

WATER COURSE AFFECTED: - R. Petteril

APPLICATION: -

13/9/91

1/ For a relaxation in NRA Bye-law to
build within 8 mtrs. of a water course.
2/ Shrub/tree planting scheme.

CONSERVATION NOTE: -

Unsuitable material on the river bank (building waste, spoil) and suggestions for the species to be planted.

COMMENTS: -

1/ The majority of this site has yet to be developed.

2/ The building referred to in the L.D. application has been erected and the corner appears to be the 5 Mtrs from the bank, as per the application.

3/ Shrub/tree planting has not taken place, the "exotic" hedge still remains - see dia. 12

4/ The unsuitable material referred to in the conservation notes still remains where it is. A large amount of garden compost has been dumped at the N. end of the exotic hedge. Turf has also been dumped at various points along the bank.

5/ Fencing, as illustrated on dia. 12, however are these ".... Such construction that easy removal can be attained"? Reference letter 6/8/91. There is also confirmation that no fencing will run parallel to the river, a fence has been erected above the existing Breeze Block retaining wall.

6/ Field drains extend at various points from both river bank, below the intended tree planting area, and the Breeze Block retaining wall by approximately 1 mtr. The pipes are plastic and 150mm. in diameter.

B248 - Blackdyke Farm. -

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NGR NY 378 620

DATE:-

10/8/93.

WATER COURSE AFFECTED: -

Rockcliff Beck.

APPLICATION: -

12/12/91.

1/ Tree planting scheme

CONSERVATION NOTE: -

Scheme agreed by the NRA.

COMMENTS: -

1/ Quickthorn planted last year, died.

2/ Some 40 trees of standard size have been
planted at approximately 10 metre intervals,
they are:-

i/ Horse Chestnut, Aesculus hippocastanum*-14
ii/ Sycamore, Acer pseudoplatanus*-10
iii/ Norway Maple, Acer platanoides*-7
iv/ Hazel, Corvlus avellana - 5
v/ Ash, Fraxinus excelsior - 4

3/ Other plants observed are Alder, Alnus alutinosa (x1), Hawthorn, Crataegus monogyna (x1, possibly a survivor from last years planting).

4/ The reason given for the loss of the plants was put down to the early dry period of 1992. It is hoped to replant during the next planting season. As well as hedgerow plants it is also hoped to plant some more trees.

5/ The fencing referred to on the plan is in place, which is promoting the growth of vegetation along the beck bank and in the beck.

^{* -} Introduced species.

B250 - Mirehouse Reservoir.

NGR NY 981 148

A April of American A

DATE: -

17/8/93

WATER COURSE AFFECTED: - Mirehouse Reservoir (nr. Pow Beck)

APPLICATION: -

17/12/91

1/ Alteration of dam.

2/ Removal of old valve tower.

CONSERVATION NOTE:-

Work to be carried out in line with NRA guide-lines.

COMMENTS:-

1/ The work described on the LDC has not yet

been carried out.

2/ It should be realised that LDC's are only

valid for three years.

B292 - Ennerdale treatment works.

NGR NY 084 155

and production contributions and the state of the production of th

DATE:-

17/8/93

WATER COURSE AFFECTED: -

R. Ehen

APPLICATION: -

26/2/92

within Bylaw

planting scheme 1/ Tree

corridor.

CONSERVATION NOTE: - New clumps to be restricted to within

4mtrs. of the river embankment.

COMMENTS:-

1/ The tree planting is within 8 mtrs. of the

river.

2/ As per the plan, the trees are not planted
within 2.5 mtrs. of the fence in area "C" as

highlighted on the diagram.

3/ The fencing that surrounds "C" and "A" is

Deer fencing.

4/ The gap between the fences and the river is

from 1-2 mtr.

B313 - Crosby on Eden.

a ter, mayor amarket a more also elementative a more relative man and an elementar according a complete elementation and a contract and a con

NGR NY 445 592

DATE: -

12/8/93

WATER COURSE AFFECTED:-

R. Eden

APPLICATION: -

28/4/92

1/ River bank repair.

CONSERVATION NOTE: -

1/ Tree planting on re-instated bank

to NRA approval.

2/ All materials to be approved by

NRA.

COMMENTS:-

1/ From the footpath, the bank down to the river is well vegetated, with Coppiced (?) Alder, Alnus alutinosa as the dominant species lining the river. Other trees were Hazel, Corylus avellana, Willow, Salix sp. and 1x Elm, Ulmus sp.

2/ The repairs to the river bank appear to have been carried out using Sandstone blocks. At the time of the site visit it was difficult to see the full extent of the repairs, due to the dense nature of the vegetation.

3/ Garden compost has been dumped at various points onto the bank from the footpath. There is a pile of Limestone (average size 150mm) and Compost, at the E. end of the works.

4/ A plastic Pipe extends uncovered towards the river for 2 mtrs. approximately 5 mtrs E. from the pile of Limestone.

B332 - Borrowdale.

NGR NY 254 158

DATE: -

17/8/93

WATER COURSE AFFECTED: -

R. Derwent.

APPLICATION: -

29/6/92

1/ Stock fencing and tree planting.

CONSERVATION NOTE: -

None

COMMENTS: ~

1/ Fencing is stock net topped with a single strand of barbed wire.

2/ Planting consists of:-

Hazel, <u>Corvlus avellana</u>.
Hawthorn, <u>Crataegus monogyna</u>.
Ash, <u>Fraxinous excelsior</u>.
Blackthorn, <u>Prunus spinosa</u>.
Birch, <u>Betula pendula</u>.

- 3/ Some gaps are present in the plantings, this could be due to a poor take up or deliberate to prevent total shading of the river.
- 4/ Mature Coppiced Alder, <u>Alnus glutinosa</u>, Sycamore, <u>Acer pseudoplatanus</u> and Elm, <u>Ulmus</u> <u>sp</u>. form clumps along the river bank. Height ranges from 3-4 mtrs.
- 5/ Refer also R. Derwent survey, section 158.

B349 - Scotby Road, Carlisle.

NGR NY 426 551

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DATE: -

12/8/93.

WATER COURSE AFFECTED:-

Durranhill Beck.

APPLICATION: -

27/8/92

1/ Surface water outfall.

CONSERVATION NOTE:-

No pollution of the stream during

construction.

COMMENTS:-

1/ The construction of this outfall is in line

with the plans put forward for LDC.

2/ The outfall is supposed to blend in with the profile of the stream banks. The top of the brick work protrudes an average of 75-150mm

above the line of the bank.

3/ Immediately behind the outfall is a gravel surfaced vehicle parking area.

B389 - Derwent Howe Quay.

there indicate the constant manifestation that a section to the section of the se

NGR NX 993 290

DATE: -

17/8/93

WATER COURSE AFFECTED: -

R. Derwent/Soapery Beck.

APPLICATION: -

25/1/93

1/ Wall Construction and outfalls

CONSERVATION NOTE: -

1/ Works to be carried out in line with

NRA guide-lines.

2/ Only uncontaminated surface water to be

discharged

COMMENTS:-

1/ 700 x 800mm. plates are yet to be fixed in position, otherwise the works are as per the

drawings and the Consent.

2/ One 150mm. pipe was observed to be sticking

out by 300mm.

3/ The plates referred to in 1/ are expected to

be in place in the near future.

B438 - Harrington Reservoir.
NGR NX 995 259

DATE: -

17/8/93

WATER COURSE AFFECTED: -

Eller Beck.

APPLICATION: -

19/4/93

1/ Re-alignment to alleviate erosion,

enhance conservation.

more strong the agreement by the transfer of the properties of the second of the secon

CONSERVATION NOTE: -

Bank protection to be raddling.

COMMENTS:-

1/ Willow stakes - Raddling - in both banks doing well.

2/ Shuttering has been used towards the E. end of the works to protect the bank, see dia.20.

3/ There is much bare ground on either bank, this could be due to the recent completion of the works.

4/ At the time of the site visit work was being done to replace the foot bridge where Harrington Reservoir exits into the R.Wyre. Small quantities of concrete from the old bridge were seen on the river bed. NGR. NX 9945 2588

490/586 - Church Brow, Kirkby Lonsdale.

NGR SD 611 790.

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DATE: -

1/9/93

WATER COURSE AFFECTED: - R. Lune

APPLICATION: -

15/2/91 - 25/3/92

1/ Bank stabilization using stone at toe,
with the later application for stonework
at base and top following land slip.

CONSERVATION NOTE: -

1/ Objection to Gabions from conservation. Use only natural materials.(LDC 490).

COMMENTS: -

1/ Wire mesh, which resemble gabions and local stone have been used at the toe and at the top of these works.

2/ The Corregated pipe shown on the plan runs straight down the repair. No attempt has been made to hide it.

3/ Some tree planting Ash, Fraxinus excelsior and Birch, Betula pendula, has taken place. There is however evidence of slippage/washout of the topsoil at the time of the site visit.

4/ Japanese Knotweed, <u>Revnoutria japonica</u>, is colonising the <u>repair</u>, just above the <u>lower</u> gabion construction.

5/ From LDC 586. "Construction of gabion walls with associated rock anchor as per drawing and subject to conditions laid out in letter 8/5/92."

22/ SITE VISIT: 496 - Kirkby-in-Furness. NGR SD 232 819.

<u>DATE:-</u> 27/8/93

WATER COURSE AFFECTED: - Gill House Beck

<u>APPLICATION:-</u> 15/3/93 1/ Outfall structure

CONSERVATION_NOTE:-

COMMENTS:- 1/ This structure appears somewhat alien to its surroundings. The outfall is however as per the drawings submitted with the application.

Control of the Contro

2/ The concrete stands 60cm. clear of the ground surrounding it.

23/ SITE VISIT:- 500 - Cowan Head Mill, Bowston.

-- NGR SD 492 974.

Company Chief the later and the company of the comp

DATE:-

1/9/93

R. Kent. WATER COURSE AFFECTED: -

APPLICATION: -

26/3/91

1/ Extension of wall along river bank.

CONSERVATION NOTE:-

1/ Local stone to be used.

COMMENTS:-. . .

1/ Mr Richard Parker provided an escort around the building site.

2/ The work involves the extension of exsisting walls using locally reclaimed stone.

3/ See also LDCs 687 and 585, as other works are currently being under taken at the site. Some of which include blasting.

504 - Birks Mill, Sedbergh.

NGR SD 650 913

Some the second of the contract of the contrac

DATE:-

1/9/93

WATER COURSE AFFECTED: -

R. Rawthay.

APPLICATION: -

29/4/91

1/ Stabilization of river bank.

CONSERVATION NOTE: -

1/ Replacement trees to be native species.

COMMENTS:-

1/ The work has been carried out as per he plan submitted with the application.

2/ Trees planted in "Tullie" tubes at the top
of the bank are:-

Hawthorn, <u>Creteagus monogyna</u>.(These form a small hedge).
Birch, <u>Betula Pendula</u>.
Hazel, <u>Corvlus avellana</u>.

3/ Block stone has been placed in ten to eleven courses and the top half is vegetated.

25/ SITE VISIT:- 535 - British Rail, 2km. W. Low Bentham. - - NGR SD 629 699

in the common recovered to the control of the contr

DATE:- 1/9/93

WATER COURSE AFFECTED: - R. Wenning.

APPLICATION: - 18/9/91

1/ Retaining wall repair.

CONSERVATION NOTE: - 1/ Replant any removed trees with similar

species.

2/ Any damage to hedge to be repaired.

<u>COMMENTS:-</u> 1/ Work carried out as per proposal.

2/ This site was viewed from the roadside, the

difficulty with which British Rail give

permission to visit sites on their land should

be noted - appreciating safety aspects.

_ 554 - Cumbria County Council, Greenodd. —

NGR SD 315 827

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DATE: -

26/8/93

WATER COURSE AFFECTED: -

R. Crake

APPLICATION: -

9/1/92

CONSERVATION NOTE: -

1 Where new bridge cuts into rock on L.B.,

avoid damage.

2/ Use natural materials to re-instate

banks, no gabions.

COMMENTS: -

1/ This work is currently being under taken with the forecast that it will be finished by

December 1993.

2/Gabions are in place on the R.B. upstream and

downstream of the works.

3/ Immediately upstream on the R.B. of the new bridge, gabions are being used. These it appears, are to faced.with Limestone blocks.

4/ Blasting has occured on the L.B. where the line of the new road goes through the rock.

558 - Cumbria County Council, Stepps Farm.

NGR NY595067

consistency of the last of adolescent and the second of the application of the application of the second of the se

DATE: -

26/8/93

WATER COURSE AFFECTED: -

Birk Beck.

APPLICATION: ~

21/1/92

1/ Re-instate existing road retaining

wall.

CONSERVATION NOTE: -

1/ Retaining wall to have original

appearance.

COMMENTS:-

1/ The work has been carried out to repair the retaining wall and the road surface.

2/ Sandstone has been used to face the concrete repair, with the original copping stones placed on the top. The Concrete posts of the rail have been set into the Sandstone facing.

3/ Four 75mm. pipes protrude for 150mm. at the base of the wall.

4/ Two 150mm. pipes, one at half height at the S. end of the repair and the other in the top of the wall at midway along the repair.

565 - British Gas pipeline, Caton.

NGR SD 533 656

to me the structure of the market by the structure of the properties of the structure of th

DATE:-

1/9/93

WATER COURSE AFFECTED: -

R.Lune.

APPLICATION: -

12/2/92

1/ Pipeline to cross river.

CONSERVATION NOTE: -

1/ Re-instate the river banks to NRA

requirements.

COMMENTS:-

1/ The N. bank has been re-instated with two
courses of block stone at the waters edge, this
is topped soil and has been seeded.

2/ The S. bank does not have the stone work of the N. bank but is topsoiled to the waters edge and has been seeded.

3/ The landscaping of the river banks follows the existing banks profile. The repair is conspicuous in that it is angled and not stepped.

4/ Notices on the public footpath warn of a deep channel in the river

5/ Another gas pipeline crosses the river to the W. of this sight. Plastic pies can be seen emerging from the repair on the N. bank. NGR SD 525 650.

573 - British Gas-Pipeline, Muncaster

NGR SD 1124 9663.

the commence to the contract of the professional street to Special Contract the contract to the contract to the contract the contract to the c

DATE:-

27/8/93

WATER COURSE AFFECTED: -

R. Esk

APPLICATION: -

14/1/92

1/ Pipeline to cross river.

CONSERVATION NOTE: -

1/ River banks to be re-instated.

2/ River margins to be replanted.

COMMENTS:-

1/ The laying of the pipeline at this site was carried out using a boring machine, which means that the river banks have been left untouched.

2/ On each side of the river the line of the pipeline is clearly visible, with two larger areas adjacent to the river bank, where the holes for boring machine would have been sunk.

591 - Forest Enterprise, Satterthwaite.

NGR SD 337 912

a mangangan sa sakar mangana da dimpolis, man man masangan panggapan panggabban tina gapasana a ang panggabban

<u>DATE</u>:-

27/8/93

WATER COURSE AFFECTED: -

Rusland Pool

APPLICATION: -

5/6/92

1/ Blockstone revetment to protect

waterpipe.

CONSERVATION NOTE: -

1/ Local stone to be used.

COMMENTS: -

1/ Block stone, 0.5-1 mtr. in size has been used to protect the water pipe, back filled with beck stone, to a depth of 2 mtrs.

2/ 20 mtrs of stone has been placed in one to two courses depending on the size of the stone.

3/ No top soil has been used, however there is some re-generation of the flora at the waters edge.

31/ SITE VISIT: _____ 605 - L.D.N.P.-Clappersgate, Ambleside.

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NGR NY 363 034

<u>DATE</u>:- 26/9/93

WATER COURSE AFFECTED: - R. Brathay

APPLICATION: - 27/7/92

1/ River bank restoration.

CONSERVATION NOTE: - No objections.

COMMENTS:- 1/ Does not resemble the plan submitted for the LDC.

2/ A retaining wall has been built to support a footpath, which runs to the waters edge.

3/ A gravel and shingle beach/shore line remains.

611 - Kent close, Bowston.

NGR SD 497 968

Controlling and the first and the control of the control of the controlling of the first of the control of the

DATE:-

1/9/93

WATER COURSE AFFECTED:-

R. Kent.

APPLICATION: -

27/7/92

1/ To build a retaining wall next to

river.

CONSERVATION NOTE:-

1/ No objections to the use of gabions on

this occasion.

COMMENTS:-

1/ The work has been carried out in accordance

with the LDC.

2/ Topsoil added to the gabions to help
establish vegetation is, thin to none existent.
Either it has been washed out or was a token

effort.

3/ Dry stone walling has been used around the mature Sycamore, <u>Acer pseudoplatanus</u> to tie in with the gabions. Sycamore seedlings were observed growing on the gabions, as was Himalayan Balsam, <u>Impatiens glandulifera</u>.

612 - S.L.D.C., Windermere:

NGR SD 416 982

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DATE: -

3/9/93

WATER COURSE AFFECTED: -

Mill Beck.

APPLICATION: -

11/8/92

1/ Construction of buttress and re-

alignment of river.

CONSERVATION NOTE: -

1/ Bank margins to be re-instated on the

L.bank.

2/ This is a Crayfish site.

3/ Stoney river bed to be retained.

COMMENTS:-

1/ Two courses of local Blockstone have been used to create the buttress/revetment. The total height is no more than 1 mtr.

2/ The repair is 2 mtr. wide by 20 mtrs.long.

3/ The area between the buttress/revetment and the waters edge at the time of the visit was well vegetated, the amount of reedy vegetation equals that of Willow herb.

4/ The stoney river bed has been retained.

5/ A large diameter concrete outfall pipe discharges into the Beck at the S. end of the buttress/revetment. The outlet is broken, with the concrete in the river.

622 - Holmrook.

a da carate que a constituid terrativa germon coma en la Constituira, que constantamente aque la persona propri

NGR SD 078 996

DATE:-

3/3/93

WATER COURSE AFFECTED:- R. Irt.

APPLICATION: -

23/9/92

1/ Re-instate 9 mtrs of river bank between

established gabions.

CONSERVATION NOTE: -

1/ Gabions not to be used

COMMENTS:-

1/ The work described on the LDC has not yet been carried out.

2/ It should be realised that LDC's are only valid for three years.

3/ A metal pipe (150mm.) protrudes from the gabions to the S.E. for approximately 600mm.

4/ The original outfall construction has fallen into disrepair, with the result that half of the concrete surround has fallen into the river. Thus exposing the outfall pipe.

<u>35/ SITE VISIT:-</u>

629 - Staveley ______NGR SD 470 987

DATE: -

1/9/93

WATER COURSE AFFECTED: -

R. Kent

APPLICATION: -

4/11/92

1/ Pointing and pressure grouting.

in the fireference of the following stages of the courts of the fireference of the firefe

CONSERVATION NOTE:-

1/ Leave gaps in masonry for birds

and bats.

COMMENTS:-

1/ Under the left (E.) arch, half the span of the bridge is covered with

cement.

2/ LDC 527 refers to bags of concrete being laid in the river to protect the bridge, these were not seen

during the site visit.

677 - J.J. Nightingale, Troutbeck Bridge

NGR SD 403 003

DATE: -

26/8/93

Trout Beck. WATER COURSE AFFECTED: -

APPLICATION: -

25/5/93

1/ Bank repair.

CONSERVATION NOTE:-

1/ Armour stone should be used. 2/ Trees to be left and replanting considered, creating an 8 mtr. green corridor.

3/ Revetment should not increase the size of the car park.

COMMENTS: -

1/ A mixture of soil, slate, rubble, building waste, bits of tarmac and concrete has been tipped down the river bank for the length of the proposed works.

2/ The height of the car park is 5-6 mtrs. above the river. The tipped material extends to the waters edge.

3/ Trees have been felled at the top of the bank and the trees on the bank have been subjected to the tipping.

4/ It is possible that the car park being extended, however the works are not yet complete.

5/ Presently at the waters edge there are a number of mature trees, these are:-

Oak, <u>Ouercus robur</u>. Birch, Betular pendula. Sycamore, Acer Pseudoplatanus. Hazel, Corylus avellana. Beech, Fagus sylvatica. Ash, Fraxinus excelsior.

6/ A number of "Coppiced" trees are situated amongst the tipping. Possibly previously felled trees, in conjunction with the above works.

693/Duddon/I - National Trust, Dunnerdale.

NGR SD 236 974

DATE:-

27/8/93

WATER COURSE AFFECTED: -

Tarn Beck.

APPLICATION: -

Applied 28/5/93, Granted 18/8/93

1/ Stone revetment work for the prevention

of bank erosion.

CONSERVATION NOTE:-

1/ Local stone to be used for the evetment

work.

2/ Work to be carried with minimum

disturbance to nesting birds.

COMMENTS:-

1/ This work has been carried out, only no

topsoil has been placed on the backfill.

2/ Local stone has been used in two courses, for a length of 10 mtrs, backfilled with beck

1 a 10 a - 4

stone.

693/Esk/II - National Trust. Taw house.

NGR NY 205 010

DATE:-

27/8/93

WATER COURSE AFFECTED: -

R. Esk.

APPLICATION: -

18/8/93

1/ Stone revetment work for the prevention

of bank erosion.

CONSERVATION NOTE: -

1/ Local stone to be used for the

revetment work.

2/ Work to be carried with minimum

disturbance to nesting birds.

COMMENTS:-

1/ Work has been carried out on the western

half of this site, a high bank.

2/ Local stone has been used, pitched in two
courses, for a length of 20 mtrs. This has been

infilled with beck stone.

39/ SITE VISIT: - _ _ 697 - C.C.C. Highways, Muncaster Bridge.

NGR SD 112 964

<u>DATE</u>:- 27/8/93

WATER COURSE AFFECTED: - R. Esk.

APPLICATION: - 7/8/93

1/ Remove temporary bridge.

2/ Pointing/grouting of the masonry.

CONSERVATION NOTE: - 1/ River bank to be re-instated on removal

of the temporary bridge.

2/ Gaps to be left in the old bridges

stone work for Bats and Birds.

3/ English Nature consulted with regard to

the wildlife value of the gaps in the

stone work.

COMMENTS: -

1/ This application supercedes a previous one dated 30/1/90. This application (no.447), was for the erection of the temporary bridge, stating 1992 as the date for the removal of the bridge.

2/ The temporary bridge is not currently in use. Strangely this bridge has a walkway, something the older bridge does not have provision for.

3/ Pointing work has been carried out in the past. There was no evidence of recent pointing work at the time of the site visit.

- Kirkby Lonsdale, S.L.D.C.

NGR SD 612 678

DATE:-

1/9/93

WATER COURSE AFFECTED: -

R. Lune.

APPLICATION: -

17/10/91

1/ Re-inforcement of river bank, stabilize

footpath.

CONSERVATION NOTE:-

1/ No gabions

2/ Suggest removal of Japanese Knotweed.

COMMENTS:-

1/ Two courses of block stone which
runs for 25 mtrs., after which there is a

collapsed block.

2/ Clumps of Japanese Knotweed, Revnoutria japonica, are abundant along this stretch of

river bank.

3/ Where the work has been carried out the footpath is now 2 mtrs. wide, after which it is reduced to 1 mtr. There is further erosion to

the W. of the works.

ANNEX TWO

SITES OF FLOOD DEFENCE INTEREST

SITES OF SPECIAL FLOOD DEFENCE INTEREST.

Below is a list of sites that should be brought to the attention of the Flood Defence Office. for full description of the sites see attached site visit reports.

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Report	Consent	Location	Description.
3	B129	Dalston	Two strands of barb wire strung across the river.
4	B168	Gretna	Road waste, building material tipped down bank as repair after work on M74 road bridge. Also a Willow is partially blocking river
6	B172	Kirby Thore	Application made in 1991. No work has yet been done , however there are plans to start work in 1995
10	B215	Pooley Bridge	Stone steps and additional stone work into the R.Eamont from private residence.
12	B230	Harraby	Developement not yet complete, however pipes stick out from river bank. Fencing has been extended over the water course, Permanent fencing erected contary to the LDC.
16	B313	Crosby	Plastic pipe uncovered on the river bank.
27	558	Stepps Farm	Repair to river bank and road, stone work of repair is not the same as original
30	591	Satterthwaite	Work as per LDC but no topsoil.
31	605	Clappersgate	A retaining wall for the footpath has been built not shown on drawings supplied with LDC.
33	612	Windermere	Broken and exposed concrete pipe adjacent to "buttress" on L.B.
36	677	Troutbeck	Works in progress but lots of tipped material down to and in the river. Possible extension to car park, which is against the LDC.