

NRA SITES OF INTEREST

Investigation of existing conservation interests
and potential furtherance opportunities.

Stephen Turner

January 1993

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Introduction

NRA sites were computerised from a large number of maps covering Central area provided by previous work done in Estates. For each site the NGR, Estate Reference Number and Site Usage were recorded. From work done in Estates it was found that in some cases the NRA do not currently own all of these sites. In addition some records could not be located within Estates and ownership rights were sometimes confusing. A definitive list can only be produced when all this information is collated by Estates. However the information contained in this report is believed to cover all sites which the NRA has an interest in.

Those sites which appeared to be of potential to conservation were chosen for further investigation. These sites were predominantly those where land was owned ie Floodbanks, Depots and Former watercourses. The deeds for these sites were then obtained from Estates using the Reference Number and the relevant information was copied. In many cases it was difficult to work out the actual area of land owned and the boundaries. These problems arose due to information being lost in transfer from North West Water, from information being inaccurately recorded and from maintenance works affecting the site lay out.

Following on from this, visits were made to the sites of potential interest and any interesting features were noted with a photographic record. In some cases ideas were proposed for enhancement; the detail of which depended upon the potential.

A rating was given for each site as regards current conservation interest and potential enhancement (nil is no value whatsoever and ***** is of highest interest).

This report is for use primarily as a first reference point. It is not a detailed management plan for all of the sites. On the otherhand it does give some ideas on what the current land is and what could potentially be done.

List of Sites Owned by the NRA.

Key to Descriptions:

BH Borehole
RGS River Gauging Station
CULV Culvert
PS Pumping Station
RG Rain Gauge

| CODE | NGR | DESCRIPTION |
|---------------|----------|--------------|
| 80/99999(192) | SJ348840 | BH |
| 80/00456 | SJ381880 | BH |
| | SJ390885 | RGS |
| 80/99999(141) | SJ401844 | BH |
| 80/99999(161) | SJ423832 | BH |
| 81/00220 | SJ457865 | RGS |
| 80/00323 | SJ454881 | BH |
| 81/00266 | SJ488847 | RGS |
| 80/00373 | SJ492897 | BH |
| 81/00258 | SJ520848 | CULV |
| 80/99999(189) | SJ508861 | BH |
| 80/00428 | SJ520852 | BOWERS BROOK |
| 80/00030 | SJ534868 | BH |
| 80/00327 | SJ891556 | BH |
| 80/00351 | SJ571896 | BH |
| 80/00378 | SJ592895 | BH |
| | SJ493841 | BH |
| 80/00438 | SJ335910 | LAND |
| 80/99999(196) | SJ368903 | BH |
| 80/99999(159) | SJ385901 | BH |
| 80/9999(158) | SJ381999 | BH |
| 80/9999(193) | SJ381999 | BH |
| 81/0026 | SJ391983 | RGS |
| | SJ348908 | BH |
| | SJ354406 | RG |
| | SJ376927 | RG |
| 80/99999(160) | SJ423905 | BH |
| 80/99999(198) | SJ423961 | BH |
| 80/99999(157) | SJ431943 | BH |
| 81/00256 | SJ439981 | BH |
| 81/00296 | SJ458908 | LAND |
| 80/99996(59) | SJ491991 | RGS |
| 81/00230 | SJ515913 | PS |
| 81/00356 | SJ512909 | LAND |
| 80/99999(185) | SJ580976 | BH |
| 80/99999(187) | SJ580968 | BH |
| 80/99999(186) | SJ589982 | BH |
| 80/99999(142) | SJ595978 | BH |
| 80/99999(188) | SJ594951 | BH |
| 80/99996(60) | SJ585933 | RGS |
| 81/00272 | SJ588921 | RGS |

| | | |
|---------------|----------|----------|
| 81/00229 | SJ590910 | LAND |
| | SJ433930 | BH |
| | SJ433961 | BH |
| | SJ441998 | BH |
| | SJ593942 | BH |
| | SJ575921 | PS |
| 81/00221 | SD286050 | LAND |
| 81/00281 | SD294044 | LAND |
| 81/00224 | SD296044 | RGS |
| 81/00227 | SD312069 | LAND |
| 81/00303 | SD318052 | LAND |
| 81/00228/3 | SD322094 | LAND |
| 81/00228 | SD328088 | RGS |
| 80/00431 | SD333079 | LAND |
| 80/00354 | SD328045 | PS |
| 81/00303 | SD338039 | LAND |
| 81/00249 | SD341027 | BH |
| 81/00303/2 | SD350030 | LAND |
| 81/00285/2 | SD361017 | RGS |
| 81/00285/1 | SD359012 | RGS |
| 80/99999(190) | SD362037 | BH |
| 80/99999(191) | SD364038 | BH |
| 80/99999(203) | SD357687 | BH |
| 80/00405 | SD381093 | BH |
| 80/99996(63) | | |
| | SD359094 | BH |
| | SD374074 | BH |
| | SD391028 | BH |
| 80/00404 | SD412052 | BH |
| 80/99999(194) | SD424026 | BH |
| 80/99999(197) | SD427008 | BH |
| 80/00355 | SD523018 | RG |
| 82/00421 | SD518095 | PIPELINE |
| 82/00422 | SD574050 | LAND |
| 82/00175 | SD587060 | RGS |
| 80/99996(57) | SD534076 | RGS |
| | SD402022 | BH |
| | SD436010 | BH |
| | SD471085 | RG |
| 82/00082/22 | | LAND |
| 82/00082/21 | | LAND |
| 82/00082/20 | SD384198 | LAND |
| 82/00082/19 | SD377207 | LAND |
| 82/00082/18 | SD400179 | LAND |
| 82/00082/17 | SD377207 | LAND |
| 82/00082/16 | SD377207 | LAND |
| 82/00082/15 | SD377207 | LAND |
| 82/00082/14 | SD400179 | LAND |
| 82/00082/13 | SD377207 | LAND |
| 82/00082/12 | SD377207 | LAND |
| 82/00082/9 | SD373160 | LAND |
| 82/00082/8 | SD362161 | LAND |
| 82/00082/7 | SD377207 | LAND |
| 82/00082/6 | SD366164 | LAND |
| 82/00082/5 | SD365165 | LAND |
| 82/00093 | SD375196 | HOUSE |

| | | |
|---------------|----------|----------------|
| 80/00462 | SD351144 | PS |
| 80/00402 | SD361153 | PS |
| 82/00082/1 | | LAND |
| | SD331161 | RG |
| 82/00082/4 | SD369170 | LAND |
| 82/00187 | SD424147 | CLAY PIT |
| 80/99999(220) | SD440117 | BH |
| 80/99999(221) | SD446118 | BH |
| 80/99999(262) | SD451130 | BH |
| 80/99999(227) | SD456131 | BH |
| 80/99999(263) | SD457131 | BH |
| 80/99999(226) | SD460137 | BH |
| 80/99997(2) | SD461150 | PS |
| 82/00166 | SD451153 | BH |
| 82/00124 | SD468157 | PS |
| 80/99999(223) | SD458170 | BH |
| 80/99997(3) | SD465172 | PS |
| 82/00100 | SD467179 | LAND |
| 80/99997(1) | SD466182 | PS |
| 80/99997(10) | SD465100 | LAND |
| 80/00180 | SD468108 | RGS |
| 82/00174 | SD476125 | RGS |
| 80/99999(225) | SD471145 | BH |
| 80/99996(50) | SD472147 | RGS |
| 80/00383 | SD477148 | BH |
| 80/99999(224) | SD452152 | BH |
| 80/00366 | SD481173 | RG |
| 82/00167 | SD490161 | BH |
| 80/99999(258) | SD495151 | BH |
| 80/00385 | SD498140 | BH |
| 82/00092 | SD497100 | LAND |
| 80/99999(259) | SD509146 | BH |
| 80/00382 | SD503153 | BH |
| | SD407138 | BH |
| | SD431117 | BH |
| | SD458125 | BH |
| | SD461133 | BH |
| | SD461164 | BH |
| | SD480136 | BH |
| | SD491150 | BH |
| | SD455164 | BH |
| | SD493150 | RG |
| | SD530106 | RG |
| 80/00453 | SD386236 | LAND |
| 82/00414 | SD366201 | LAND |
| 82/00417 | SD385215 | LAND |
| 82/00415 | SD384420 | LAND |
| 82/00418 | | LAND |
| 80/99998(75) | SD403292 | RG |
| 80/00392 | SD455215 | RGS |
| 80/00095 | SD435273 | DEPOT |
| 80/00408 | SD434285 | LAND |
| 82/00091 | | FISHING RIGHTS |
| 80/00435 | SD511217 | LAND |
| 80/99998(119) | SD563294 | RG |
| 80/00375 | SD563251 | RADIO MAST |

| | | |
|---------------|----------|------------|
| 80/00412 | SD565268 | BH |
| 80/00400 | SD565278 | RGS |
| 80/00017 | SD582294 | BH |
| 80/99998(98) | SD592265 | RG |
| 80/00361 | SD528284 | LAND |
| | SD497265 | RG |
| | SD584232 | RG |
| | SD525268 | BH |
| | SD551294 | BH |
| 82/00139 | SD618291 | LAND |
| 82/00176 | SD677261 | RGS |
| 80/99998(118) | SD769286 | RG |
| | SD603216 | BH |
| | SD692294 | BH |
| | SD632259 | RG |
| 82/00185 | SD359303 | HOUSE |
| 80/99996(1) | SD386302 | RG |
| 80/99997(5) | SD347323 | PS |
| 80/99996(2) | SD372302 | RG |
| 82/00170 | SD432325 | BH |
| 80/99999(768) | SD470352 | BH |
| 80/99999(177) | SD475368 | LAND |
| 80/99996(66) | SD479380 | RGS |
| 80/99999(274) | | BH |
| 80/99999(275) | | BH |
| 80/99999(276) | | BH |
| 80/99999(264) | SD489370 | BH |
| 80/99999(265) | SD489370 | BH |
| 80/99999(266) | SD489370 | BH |
| 80/99999(119) | SD485345 | BH |
| 82/00168 | SD486326 | BH |
| 80/99999(236) | SD500327 | BH |
| 80/00322 | SD516312 | BH |
| 80/99999(267) | SD501346 | BH |
| 82/00163/2 | SD502349 | BH |
| 82/00163/1 | SD511354 | BH |
| 80/99999(251) | SD502359 | BH |
| 82/00163/3 | SD503363 | BH |
| 82/00173 | SD503365 | RGS |
| 80/99999(72) | SD494385 | BH |
| 80/00331 | SD489397 | DRIFT WELL |
| 80/99999(269) | SD491398 | BH |
| 80/99999(270) | SD501396 | BH |
| 80/99999(71) | SD508381 | BH |
| 80/99999(245) | SD524370 | BH |
| 80/99999(246) | SD520357 | BH |
| 82/00163/4 | SD515345 | BH |
| 82/00162 | SD528345 | BH |
| 82/00114 | SD542353 | BH |
| 80/00169 | SD554314 | BH |
| 82/00114 | SD589314 | RGS |
| 82/00151 | SD586314 | RGS |
| 82/00165 | | |
| | SD474387 | BH |
| | SD481354 | RG |
| | SD540363 | BH |

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|---------------|----------|----------------|
| 80/00359 | SD575329 | BH |
| 82/00126 | SD631395 | RADIO MAST |
| 82/00097 | SD605329 | FISHING RIGHTS |
| 82/00440 | SD706399 | RGS |
| 82/00116 | SD722391 | RGS |
| 82/00153 | SD722391 | RGS |
| 82/00128 | SD701376 | RGS |
| 80/00347 | SD709370 | FISHING RIGHTS |
| 82/00117 | SD724395 | FISHING RIGHTS |
| 80/99998(97) | SD360730 | RGS |
| 80/99998(117) | SD735359 | RG |
| 80/99998(25) | SD670306 | RG |
| | SD735391 | RG |
| | SD627364 | RG |
| | SD675337 | BH |
| | SD735359 | RG |
| | SD755368 | BH |
| 80/00369 | SD854388 | RADIO MAST |
| 82/00157 | SD837351 | LAND |
| 82/00103 | SD837326 | BUILDING |
| 80/00362 | SD847321 | RADIO MAST |
| 80/00352 | SD931374 | RG |
| | SD853384 | BH |
| | SD876344 | BH |
| | SD850395 | BH |
| 80/99998(8) | SD382415 | RG |
| 80/00397 | SD341480 | LAND |
| 80/00396/3 | | LAND |
| | SD314449 | RG |
| | SD365465 | RG |
| | SD375465 | BH |
| | SD396459 | BH |
| 80/99998(10) | SD400482 | RG |
| 80/00396/6 | SD406495 | LAND |
| 80/00396/4 | SD406497 | LAND |
| 80/00396/2 | SD413495 | LANE ENDS |
| 80/00396/5 | SD406488 | LAND |
| 80/00432 | SD406489 | FLOOD BASIN |
| 80/99996(35) | SD407488 | RGS |
| 80/99999(146) | SD439492 | BH |
| 80/99997(4) | SD434401 | PS |
| 80/99999(248) | SD491499 | BH |
| 80/99999(75) | SD475492 | BH |
| 80/99999(118) | SD488478 | BH |
| 80/99999(252) | SD495473 | BH |
| 80/99996(37) | SD460472 | RGS |
| 80/99999(74) | SD481468 | BH |
| 80/99999(168) | | |
| 80/99999(174) | SD486460 | BH |
| 80/99998(9) | SD460462 | RG |
| 80/99999(144) | SD460450 | BH |
| 80/99999(172) | SD480451 | BH |
| 80/99999(173) | SD480451 | BH |
| 80/99999(234) | SD483447 | BH |
| 80/99999(148) | SD465438 | BH |
| 80/99999(134) | SD472432 | BH |

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|---------------|----------|-------------|
| 80/99999(149) | SD469429 | BH |
| 80/99999(243) | SD475426 | BH |
| 80/99999(244) | SD475426 | BH |
| 80/99999(143) | SD471423 | BH |
| 82/00118 | SD465412 | RGS |
| 82/00147 | SD462411 | RGS |
| 80/99999(237) | | BH |
| 80/99999(73) | SD483400 | BH |
| 80/99999(114) | SD495405 | |
| 80/99999(115) | SD495405 | BH |
| 82/00158 | SD499400 | DRIFT WELL |
| 80/99999(167) | | |
| 80/99999(257) | SD498411 | BH |
| 80/99999(111) | SD496415 | BH |
| 80/99999(239) | SD484414 | BH |
| 80/00455 | SD477415 | FLOOD BASIN |
| 80/99999(169) | SD472420 | BH |
| 80/99999(170) | SD472420 | BH |
| 80/99999(238) | SD479431 | BH |
| 80/99999(112) | SD488429 | BH |
| 80/99999(113) | SD488429 | BH |
| 80/99999(240) | SD501430 | BH |
| 80/99999(241) | SD492432 | BH |
| 80/99999(249) | SD496434 | BH |
| 80/99999(229) | SD498433 | RGS |
| 82/00164 | SD480436 | BH |
| 80/99999(233) | SD493444 | BH |
| 80/99999(234) | SD493444 | BH |
| 80/99999(235) | SD493444 | BH |
| 80/99999(240) | SD495444 | BH |
| 82/00146 | SD488446 | RGS |
| 80/99999(110) | SD488447 | BH |
| 80/99999(214) | SD499446 | BH |
| 80/00112 | SD486451 | LAND |
| 80/00372 | SD495455 | RGS |
| 80/99999(253) | SD500455 | BH |
| 80/99999(165) | SD493459 | BH |
| 80/99999(166) | SD493459 | BH |
| 80/99999(171) | SD457458 | BH |
| 80/99999(272) | SD477423 | BH |
| 80/99999(273) | SD476425 | BH |
| 80/00348 | SD481410 | RGS |
| 80/99998(12) | SD577415 | RGS |
| 80/00358 | SD501499 | RGS |
| 80/9999(230) | SD505454 | BH |
| 80/99999(116) | SD502465 | BH |
| 80/99999(117) | SD502465 | BH |
| 80/99999(135) | SD435436 | BH |
| 80/99999(216) | SD533455 | BH |
| 80/99999(215) | SD522440 | BH |
| 80/99999(208) | SD511429 | BH |
| 80/99999(211) | SD518433 | BH |
| 80/99999(212) | SD526435 | BH |
| 80/99999(209) | SD512424 | BH |
| 80/99999(254) | SD505419 | BH |
| 80/99999(213) | SD531420 | BH |

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|---------------|----------|----------------|
| 80/99999(255) | SD505414 | BH |
| 80/99999(210) | SD519414 | BH |
| 80/99999(250) | SD509406 | BH |
| 80/99996(42) | SD511406 | RGS |
| 80/99999(70) | SD506403 | BH |
| 80/99999(108) | SD503412 | |
| 80/99999(109) | SD503412 | BH |
| 82/00171 | SD518436 | LAND |
| 80/99999(232) | SD512405 | BH |
| | SD475484 | BH |
| | SD471406 | BH |
| | SD477408 | RGS |
| | SD483494 | BH |
| | SD493449 | BH |
| | SD504406 | BH |
| | SD508410 | BH |
| | SD507416 | BH |
| | SD505432 | BH |
| | SD501469 | RGS |
| | SD522406 | BH |
| | SD523452 | RG |
| 80/99998(15) | SD614440 | RG |
| 82/00149 | SD734424 | LAND |
| 82/00107 | SD736409 | DEPOT |
| 80/00347 | SD726400 | FISHING RIGHTS |
| 80/99998(26) | SD761432 | RG |
| 80/99998(14) | SD671453 | RG |
| | SD684446 | RG |
| | SD718479 | RG |
| | SD697410 | RGS |
| 80/99998(57) | SD802454 | RG |
| | SD849417 | BH |
| | SD870470 | BH |
| | SD854423 | RG |
| | SD878458 | RG |
| 82/00098 | SD422543 | FISHING RIGHTS |
| 80/99999(147) | SD436506 | BH |
| 80/99999(145) | SD452513 | BH |
| 80/99993(3) | SD453512 | RGS |
| 80/00183 | SD481554 | RGS |
| 80/99998(74) | SD564592 | RG |
| 80/00358 | SD501500 | RGS |
| 80/99999(231) | SD541561 | BH |
| 80/99999(130) | SD566545 | RG |
| 80/00324 | SD582535 | BH |
| 80/99998(96) | SD598576 | RG |
| 82/00104 | SD713523 | DEPOT |
| 80/99998(76) | SD794530 | RG |
| 80/99999(136) | SD782596 | BH |
| 80/99998(7) | SD767563 | RG |
| | SD653528 | BH |
| | SD655534 | BH |
| | SD704549 | RGS |
| | SD718546 | RGS |
| | SD745565 | RGS |
| | SD718748 | RG |

| | | |
|---------------|----------|------|
| 82/00159 | SD839555 | RGS |
| 80/99998(58) | SD835583 | RG |
| 80/99998(28) | SD852504 | RG |
| | SD850552 | RGS |
| 82/00115 | SD605679 | LAND |
| 80/99998(106) | SD616620 | RG |
| 80/99998(107) | SD615659 | RG |
| 80/99998(29) | SD626698 | RG |
| 80/99998(22) | SD675675 | RG |
| 80/99998(27) | SD721660 | RG |
| 80/99998(56) | SD758687 | RG |
| | SD625694 | RG |
| | SD674631 | RG |
| 82/00125 | SD810697 | RG |
| 82/00131 | SD817653 | LAND |
| 80/99998(53) | SD820672 | RG |
| | SD814633 | RGS |
| | SD848637 | RG |
| 80/99998(113) | SD800767 | RG |
| 80/00007 | SD782802 | LAND |

Altcar Pumping Station

Location:

The site is situated where Main Sluice meets the Alt (SD318051).

Area:

0.1 Hectares.

Reference:

81/00303/1

81/00303/2

Ownership Boundaries:

All that outlined in red, though that around the old pumping station is likely to be sold.
(see map)

Current Interest:

**.

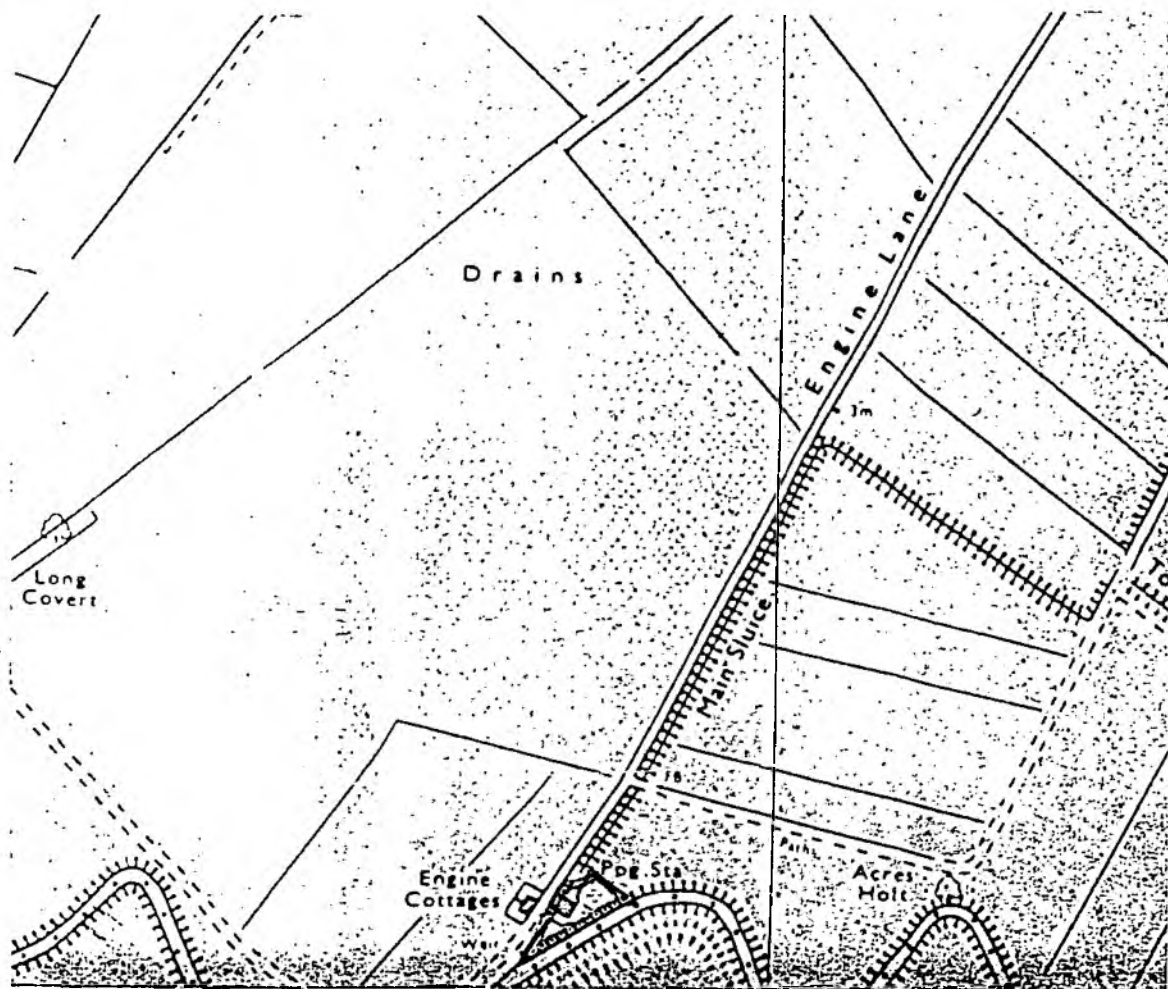
Planting of trees has taken place around the new pumphouse and its approach. Such species include Ash, Willow and Alder. There is some Willow Herb (*Chamaenerion* sp.) and Cocksfoot (*Dactylis glomerata*) present and the remains of an old hawthorn hedge.

Potential Enhancement:

*

Bird and Bat boxes could be put up on the pumphouse.

Location of Altcar Pumping Station



Banks Railway Ditch

Location: The land owned runs from the confluence with The Sluice (SD38412005) to Rydings Lane (SD40752148).

Area:
5.1 Hectares.

Reference:
82/00415

Ownership Status:
The area within the red boundary is owned by the NRA (see map)

Current Interest: ***
The right bank of the downstream sections are of conservation value with Reed Canary Grass (*Psalteries arundinacea*), Red Fescue (*Festuca rubra*), Cocksfoot (*Dactylis glomerata*), Tall Fescue (*Festuca arundinacea*), Soft Rush (*Juncus effusus*), Hard Rush (*Juncus inflexus*) and Common Reed (*Phragmites australis*).
Of high conservation interest is a wet area near the Sluice, probably where dredgings have been dumped in the past with Iris, Hard Rush, Soft Rush, Sweet Grass, Cuckoo Flower (*Cardamine pratense*), Reed Canary Grass, Great Willowiest (*Epilobium hirsute*), Reed Sweet Grass (*Glyceria maxima*) and Jointed Rush (*Juncus articulatus*).

The banks are of some interest these are grass dominated with Rye Grass (*Lolium perenne*), Tall Fescue, Cocksfoot, Yorkshire Fog (*Wholes landaus*), Red Fescue, Common Reed, Meadow Foxtail (*Alopecurus pratensis*), Couch Grass (*Elmhurst repents*), Meadow Sweet (*Filipendula ulmaria*), Bramble (*Rubies frutions gag.*), Knapweed (*Century Niger*), Angelica (*Angelica sylvestris*), Dandelion (*Taraxacum officinale gag*), Cow Parsley (*Anthriscus sylvestris*) and Nettles (*Rustic dioica*).

There is some marginal vegetation Iris, Reed Sweet Grass and a single Reedmace (*Typha latifolia*) along with Soft Rush.

There is a lot of algae, some Canadian Pondweed (*Elodea canadensis*), Watercress (*Nasturtium officinale*), Fools Watercress (*Apium nodiflorum*), Curled pondweed (*Potomogetan crispus*) and Celery Leaved Buttercup (*Ranunculus sceleratus*).

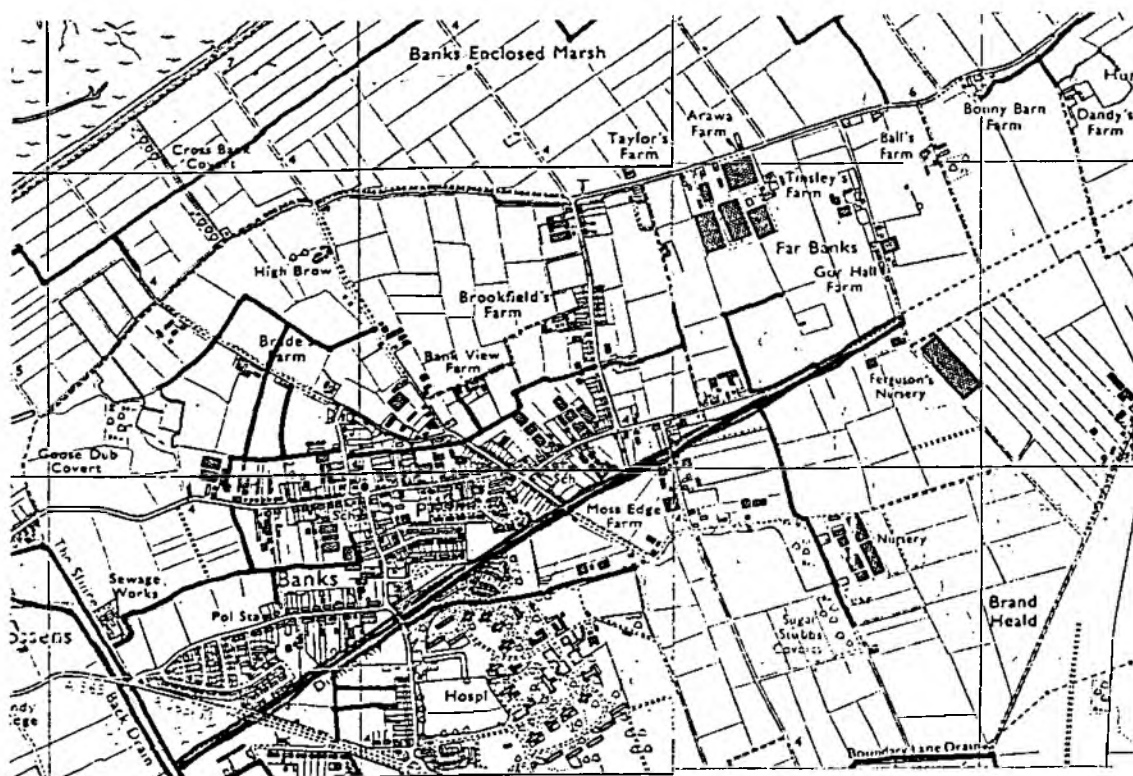
Water Voles are regularly seen and Kingfishers had been seen passing through. In addition there is quite a large and diverse butterfly population.

The bank is well used by local people.

Potential Enhancement: ****
It is hoped that the site will be developed for public access with additional planting and management.

For further details see site file.

Location of Banks Railway Ditch



Banks Sea Embankment

Location:

The land owned is sea embankments which run from Crossens Pool (SD373207) to Hundred End Farm (SD414227).

Area:

130 Hectares.

Reference:

82/00082/17

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: **

The banks are of very little interest being rank monoculture Rye Grass (*Lolium perenne*). There is the occasional Hawthorn tree.

The northern boundary of the site adjoins Ribble Marshes National Nature Reserve which is a SSSI. Consequently the associated bird life is rich, making use of the embankment.

There are grazing rights associated with this land.
(see photographs)

Potential Enhancement: ***

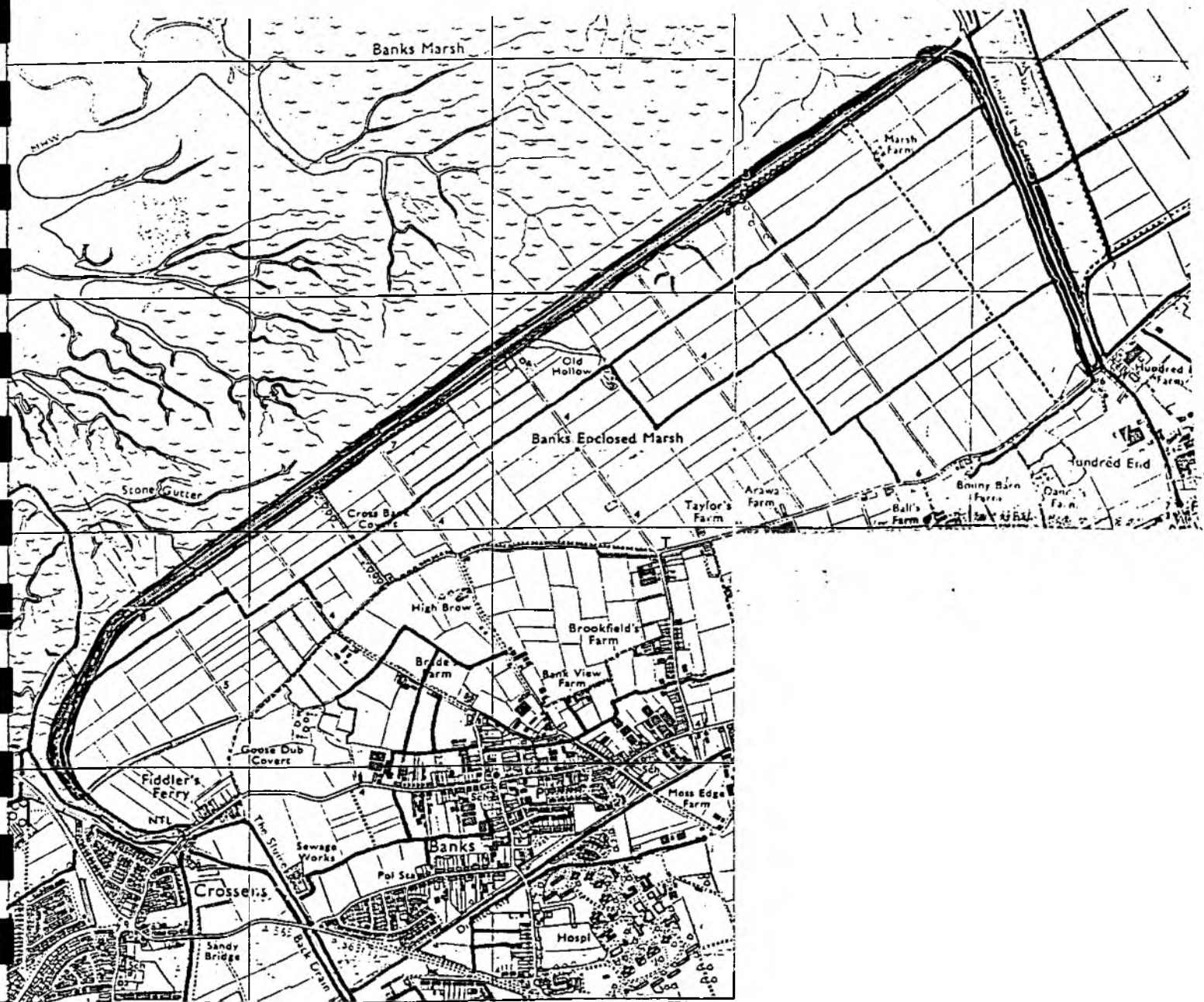
Currently the site is rather poor but the close proximity of the the Nature Reserve would enhance the wildlife habitat in the area.

A mowing regime could be implemented and hardy shrubs and trees planted inland of the embankment where there is more shelter.

There is a public footpath along the embankment and so any enhancement would benefit recreation.

The mass of bird life and the presence of a public footpath makes the establishment of bird hides a possibility.

Location of Banks Sea Embankment



Photographs of Banks Sea Embankment

1.



2.



Banks Watercourse

Location:

This runs from Banks (SD398210) to the confluence with the Sluice (SD382205).

Area:

1.2 hectares

Reference:

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: ***

That land by the old sewage works is the only bit of interest, as the rest has been taken over by farming. Around the former sewage works there are small plantations of sycamores of about 20 years old. In addition there is a great deal of bramble (*Rubex sp.*) and other shrub. Reed Canary Grass (*Psalteries arundinacea*) and other Grass species. The banks are mown monoculture grass.

Potential Enhancement: ***

Although this is only a small area it is well established and could be enhanced with an appropriate management plan. Possibilities could include planting more native trees and removing some of the sycamores along with some bramble clearance and planting of woodland flowers.

Location of Banks Watercourse



Birkdale Cop Pumping Station

Location:

The site is located on Boundary Brook off the B5243 (SD351144).

Area:

0.08 Hectares.

Reference:

80/000462

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: **

The site has already been developed with trees and shrubs.

Potential Enhancement: nil

The site has already been planted up with native trees and shrubs in a pleasing way, not only to the eye but also to wildlife.

Location of Birkdale Cop Pumping Station



Boundary Brook Pumping Station

Location:

Located on Boundary Brook (SD357150).

Area:

0.04 Hectares

Reference:

80/99997

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: *

There is very little of interest on the site. Monoculture mown Rye Grass (*Lolium perenne*) dominates.

Potential Enhancement: *

The planting of some small trees and shrubs could be carried out along with a mowing regime to enhance wildlife. It may also be possible to transplant some Reed Canary Grass and other marginal plants. Some bird and bat boxes could be erected on the pumping station wall.

Location of Boundary Brook Pumping Station



Chapel House

Location:

The land owned lies in a meander of the River Douglas near Parbold, SD498100

Area:

0.62 hectares.

Reference:

82/00092

Ownership Boundaries:

The NRA owns the land outlined in red on the map

Current Interest: **

The land is currently used for rough grazing, consequently the land is unimproved grassland. In addition there is some Bramble (*Rubex sp.*) and a mature Ash tree. There are unconsolidated cliffs on the inside of the meander.
(see photograph)

Enhancement Potential: ***

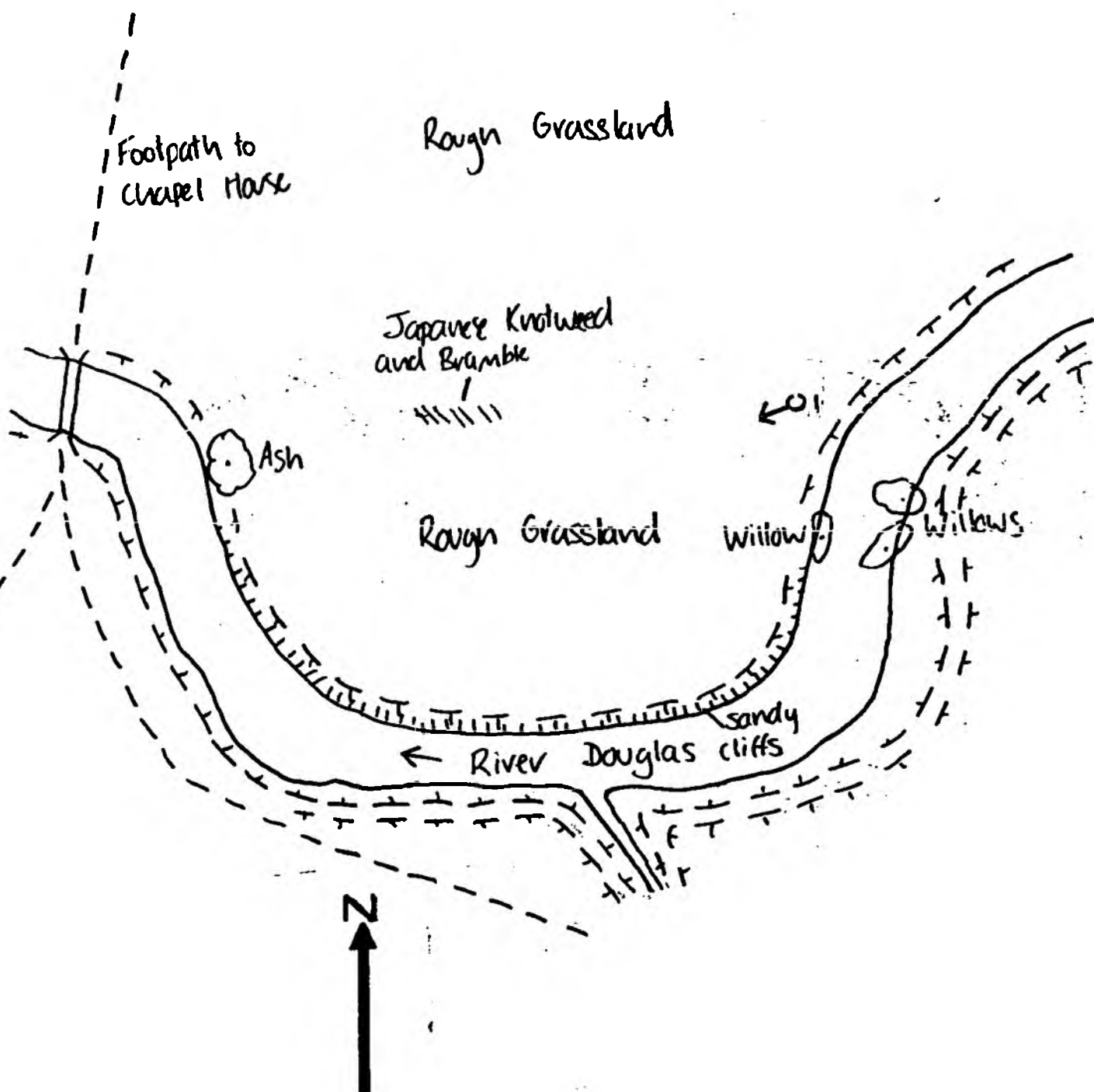
The area could be planted up with trees such as Oak, Ash- and Willow with some small shrub cover. The cliffs should be retained.

Location of Chapel House



Site Plan for Chapel House

The area owned by the NRA is that outlined in red.
Scale 1:500



Photograph of Land At Chapel House



Cheshire Lines

Location:

The land runs along the left bank of Cheshire Lines Brook from North Moss Lane (SD322094) to New Cut Pumping Station (SD332080).

Area:

4.5 Hectares

Reference:

81/00228/3

Ownership Boundaries:

That coloured red on the map.
(see map)

Current Interest: ***

The land owned is part of the disused Cheshire Lines Railway which is leased to the Cheshire Lines Amenity Group. That owned forms part of a sign posted right of way. There are a number of trees present particularly around the old station including Alder, Willow and Hawthorn.

Purple Loosestrife (*Lythrum salicaria*), Hemp-agrimony (*Eupatorium cannabinum*), and Hemlock Water Dropwort (*Oenanthe crocata*) are scattered along the bank toe. There is also some Japanese Knotweed (*Reynoutria japonica*). The marginal vegetation is of high conservation. Species include Branched Bur-reed (*Sparganium erectum*), Reed Canary Grass (*Psalteries arundinacea*), Common Reedmace (*Typha latifolia*), Soft Rush (*Juncus effusus*), Brooklime (*Veronica beccabunga*), Water Forget-me-not (*Myosotis aquatica*), Blue Water-speedwell (*Veronica anagallis-aquatica*), Amphibious Bistort (*Polygonum amphibium*), Gipsywort (*Lycopus europaeus*), Fool's Watercress (*Apium nodiflorum*), and Watercress (*Rorippa nasturtium-aquaticum*).

The channel is approx 4m wide and is straight and has floodbanks along most of its length. Small Pondweed (*Potamogeton berchtoldii*), Waterstarwort (*Callitriche* sp.) and Amphibious Bistort (*Polygonum amphibium*) are present.

In addition the following wildlife is seasonally present:

Odonata:

Blue-tailed Damselfly : *Ischnura elegans*

Common Darter : *Sympetrum striolatum*

Lepidoptera:

Meadow Brown

Common Blue

Gatekeeper

Large White

Small White

Green-veined White

Wall

Small Tortoiseshell

Red Admiral

Birds:

Mallard and Moorhen with chicks. Pheasants and Partridges use the banks as cover.

Kestrels

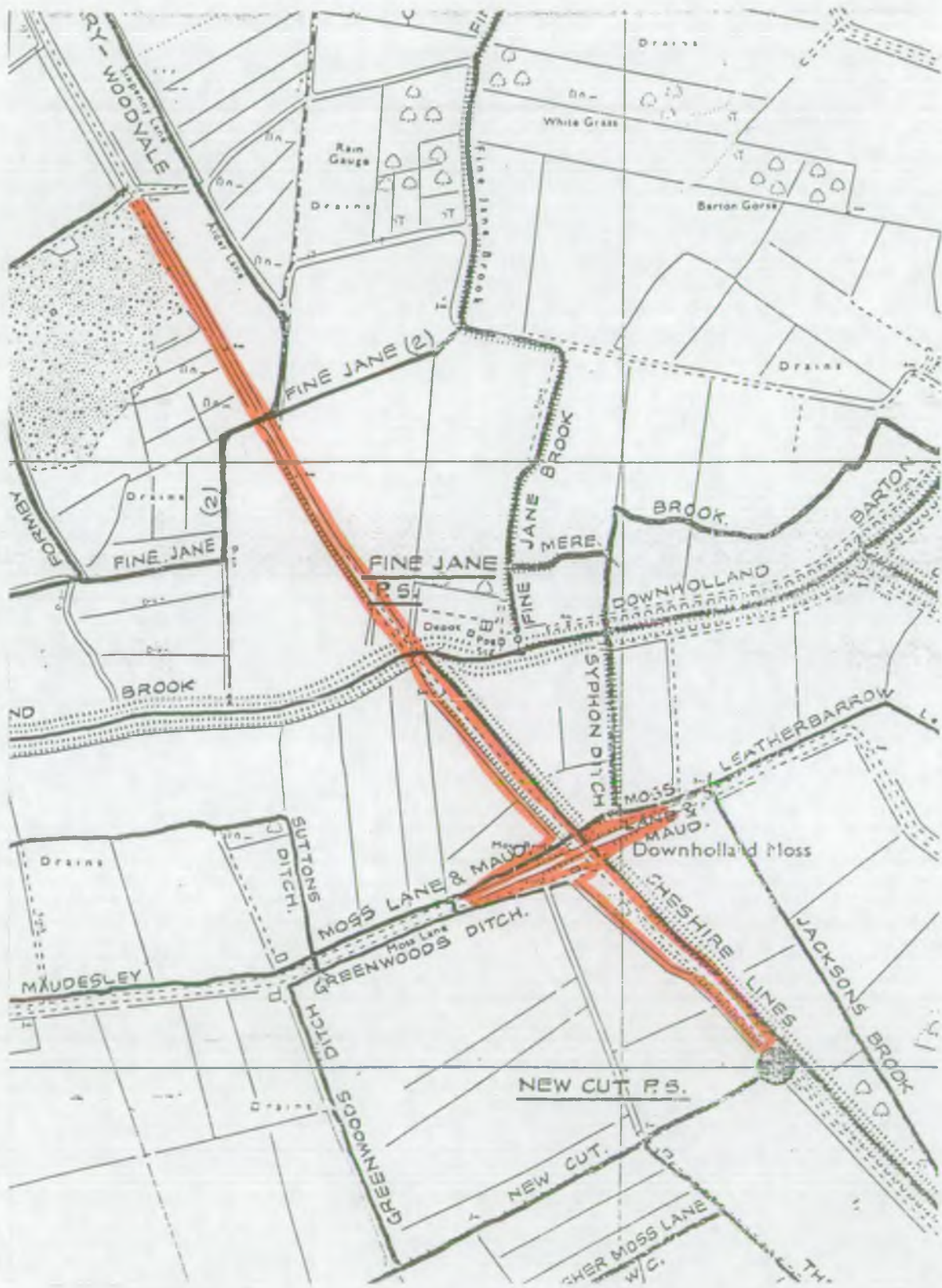
Other:

Rabbits are causing damage to the banks and berm.
(see photographs)

Potential Enhancement: ***

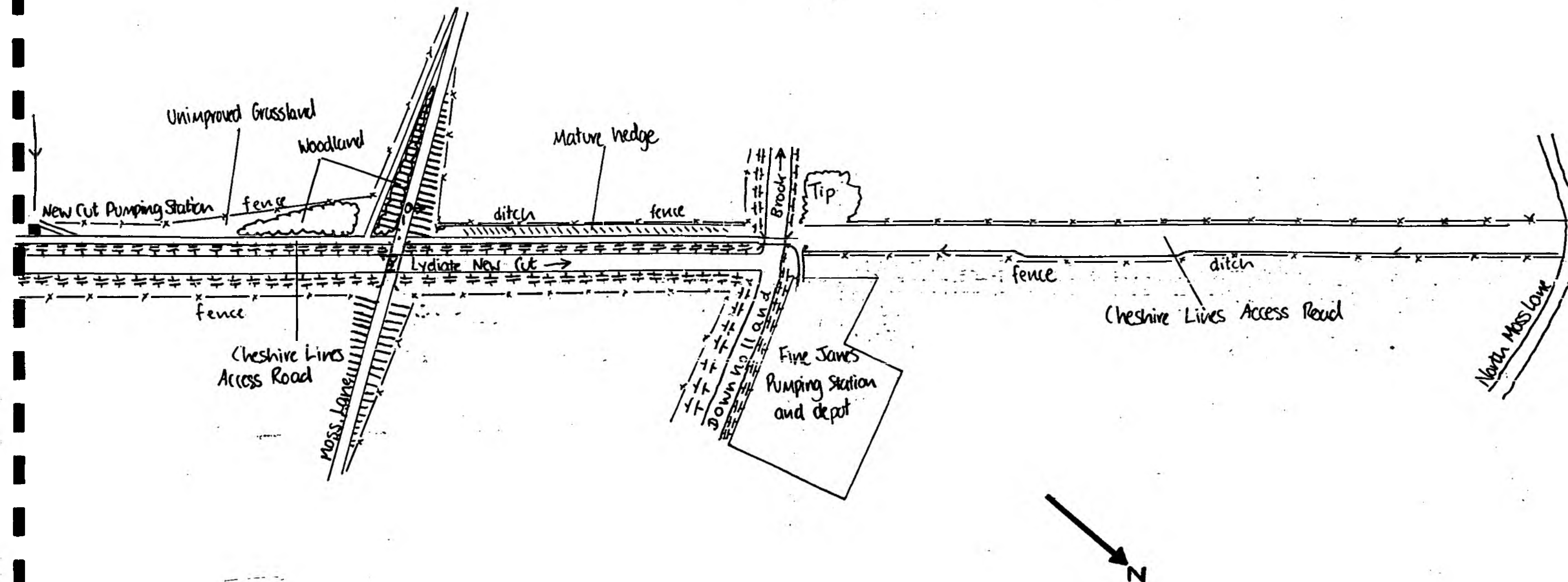
Any enhancement must involve liaison with the Cheshire Lines Amenity Group who lease the site. However there is some clearance and planting which could be done around the old station and further planting along the edges of the track including reinstatement of hedgerows. The embankments for Old Moss Lane Bridge could be planted up with trees and shrubs, this would not require any liaison.

Location of Cheshire Lines



Site Plan for Cheshire Lines

The area owned by the NRA is outlined in Red.
Scale 1:5000



Photographs of Cheshire Lines

1.



2.



Clitheroe Depot

Location:

The small piece of land is sited against the railway
(SD738413)

Area:

0.015 Hectares.

Reference:

82/00107

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: nil

The site is used for storage and is full of rubble. There
is no conservation interest.

Potential Enhancement: *

Bird and bat boxes could be erected on the buildings

Location of Clitheroe Depot



Crossens Pumping Station

Location:

Situated at Crossens off Banks Road (SD377207)

Area:

8.5 Hectares

Reference:

82/00082/07
82/00082/12
82/00082/13
82/00082/15
82/00082/16
82/00082/19

Ownership Boundaries:

All that coloured in red.
(see map)

Current Interest: **

Most of the land consists of buildings surrounded by monoculture mown grassland.

However despite this there is the occasional hawthorn hedge and willow tree. In addition there are brambles and some silver birches. There are abandoned areas of Willow Herb (*Chaemerion* sp.) on old banks.

There is a newly created conservation area which consists of a pond with mature willows and willow/silverbirch saplings around it.

The watercourses contain Common reed (*Phragmites angusta*) Reed Sweet Grass (*Glyceria maxima*), Soft Rush (*Juncus effusus*) and Reed Canary Grass (*Psalteries arundinacea*) along the margins. In addition there is Fools Watercress (*Apium nodiflorum*) present.

The Crossens Pool area adjoins the Ribble Marshes National Nature Reserve, which is of very high conservation value.

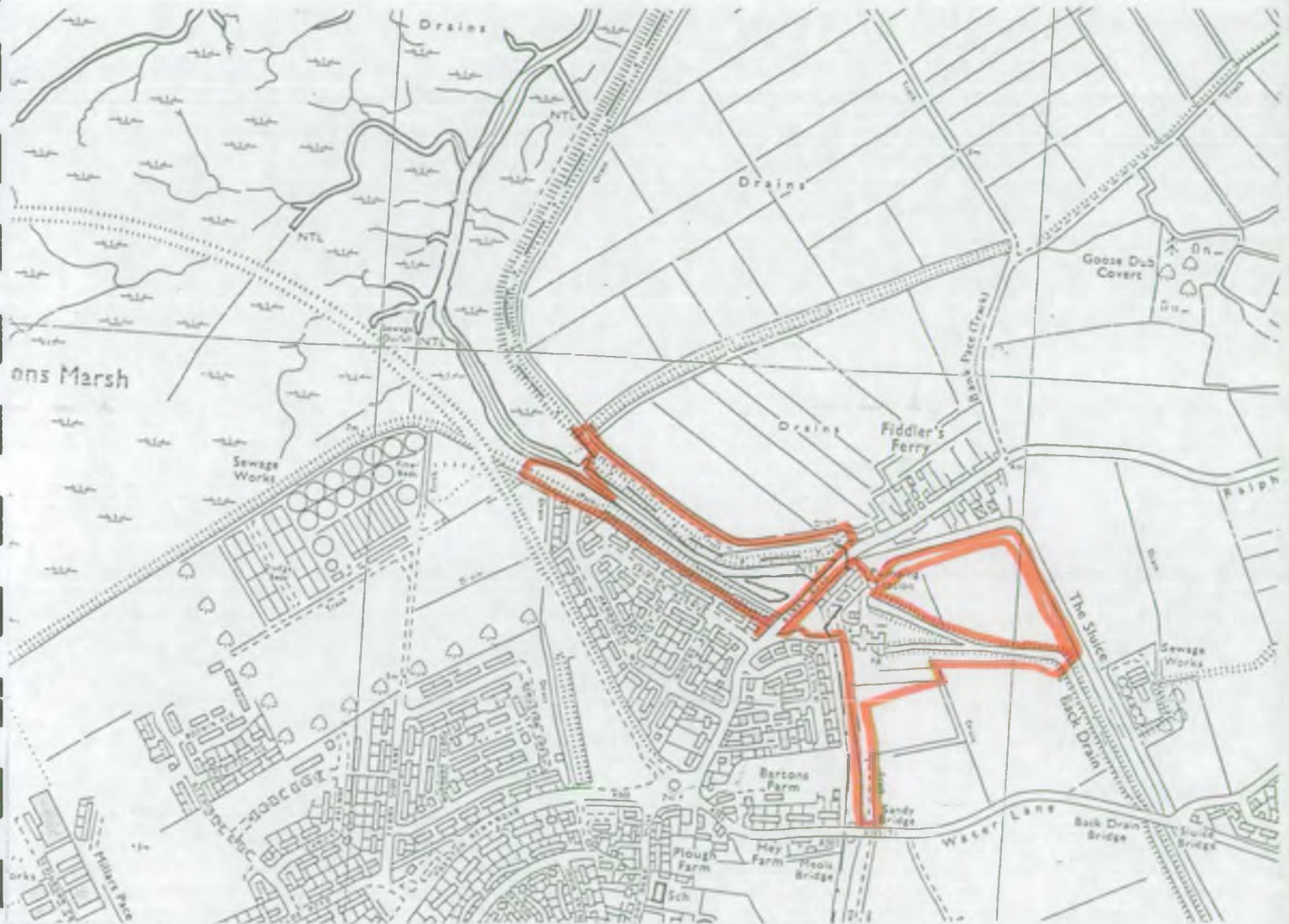
Some of the land is rented out to arable farming and there are some allotments and storage areas present near the pumping station.

(see photographs)

Potential Enhancement: ****

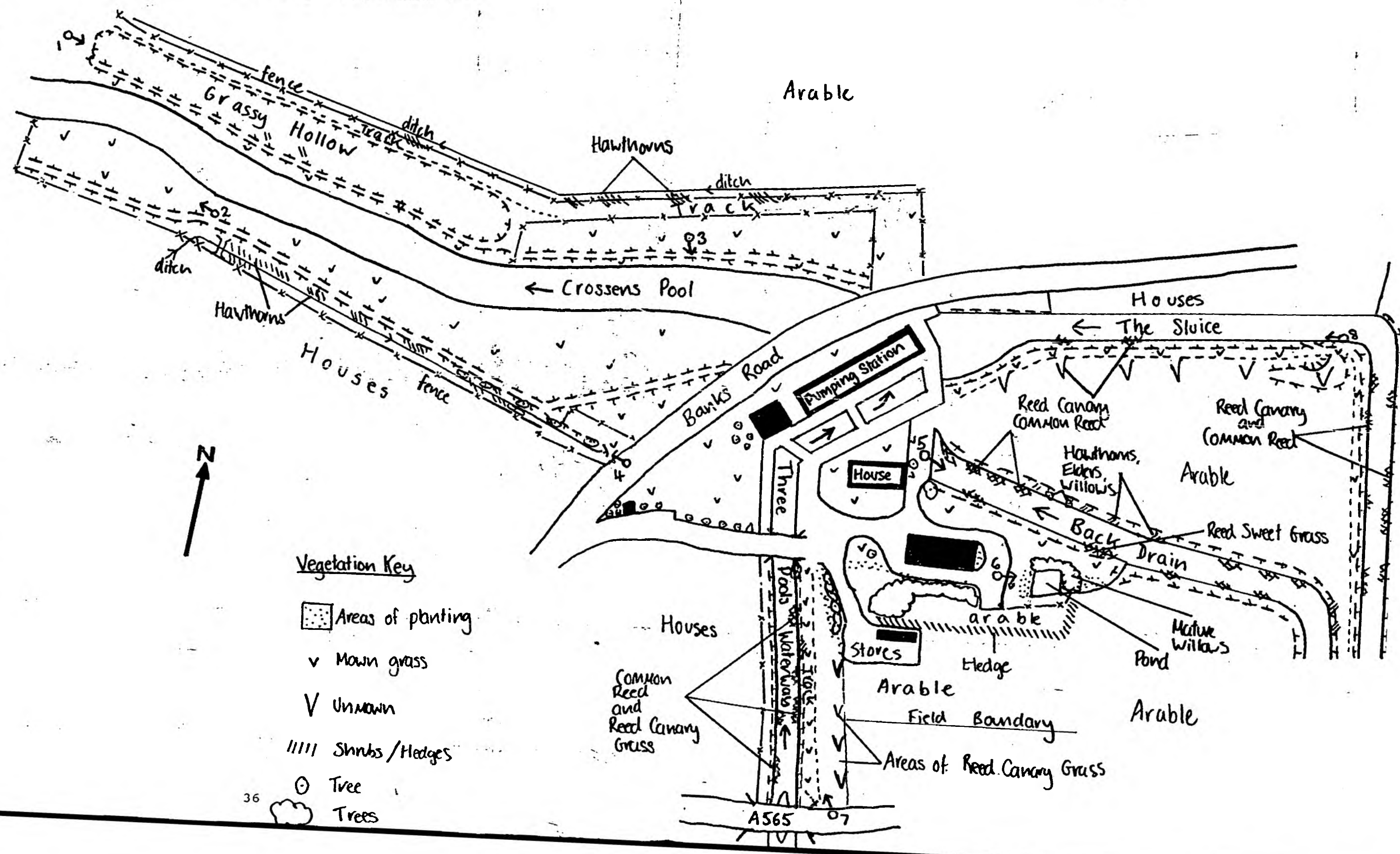
Although some attempt at enhancement has taken place there is much more which could be done. More trees and shrubs could be planted near the pond which itself could be improved by creating physical features such as shelves or an island. Hedges could be reinstated along boundaries. Marginal species could be planted along the watercourses along with Willows and Alders. In addition there are a number of sites in the Crossens Pool area where wet and marshy areas could be created with associated vegetation. A large amount of landscaping could be carried out around the pumping station itself to create interesting features of conservation value.

Location of Crossens Pumping Station



Site Plan for Crossens Pumping Station

The area owned by the NRA is outlined in Red.
Scale 1:2500



Vegetation Key

- Areas of planting
- v Mown grass
- V Unmown
- ||||| Shrubs/Hedges
- Tree
- ☁ Trees

Photographs of Crossens Pumping Station

1.



2.



Photographs of Crossens Pumping Station

3.



4.



Photographs of Crossens Pumping Station

5.



6.



Photographs of Crossens Pumping Station

7.



8.



Fine Janes Brook

Location:

Section 1 runs from Three Pools Watercourse (SD367166) to Meols Cop road (SD358160).

Section 2 runs from SD367165 to SD338122.

Area:

Section 1 is 0.015 Hectares.

Section 2 is 0.15 Hectares.

Reference:

82/00082/5

82/00082/8

Ownership Boundaries:

All that coloured in red. Though on the ground there does appear to be some dispute regarding this in section 1. (see map)

Current Interest: *

There is very little interest in any of the sections.

Mown Rye Grass (*Lolium perenne*) dominates.

(see photograph).

Potential Enhancement: ***

There is very little which can be done except perhaps sowing a conservation seed mix and planting some small trees or shrubs in section 1.

In section 2 however there is room to plant a Hawthorn hedge, shrubs, small trees or honeysuckle along the boundary fences. It may also be possible to plant some marginal vegetation and create mowing regimes.

For further information see River Corridor Survey.

Location of Fine Janes Brook



Photograph of Fine Janes Brook



Fine Janes Pumping Station

Location:

The site is located at the confluence of Lydiate New Cut and Downholland Brook (SD327088)

Area:

4 Hectares.

Reference:

80/99997

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: *

At present the land is used as a store and a Pumping Station. There is very little conservation interest, there is Rye Grass (*Lolium perenne*) on the banks. The occasional shrub or tree. Some planting has taken place along the approach road, species represented are principally shrubs and small trees.

Kestrels are regularly seen on site along with the occasional Owl.

In addition there is a large area of land associated with a house, this is surrounded by mature Silver Birch. There are a wide variety of Grasses including Bent Grass (*Agrostis* sp.), Reed canary Grass (*Phalaris arundinacea*), Cocksfoot (*Dactylus* sp.).

Potential Enhancement: ****

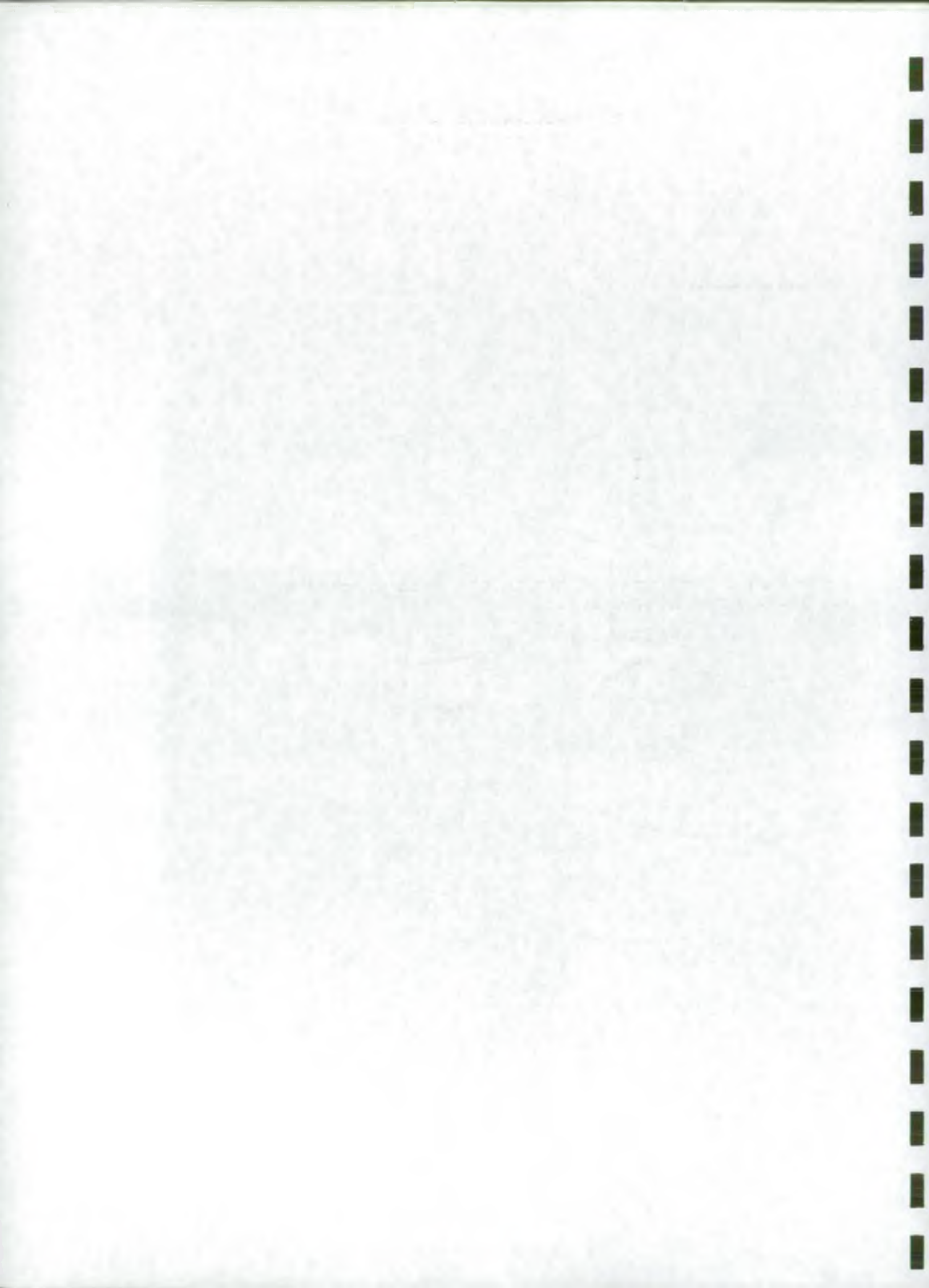
The boundary fences could be planted up with hedges, honeysuckle, ivy or other creepers. Some shrubs and trees could be planted around the site and some Bird and Bat boxes could be set up on the buildings.

The area of land associated with the house has great conservation potential for development as a wetland area with some additional tree and shrub planting.

In addition Bird and bat boxes could be erected.

Location of Fine Janes Pumping Station





Freckleton Pool

Location:

The site is located on Freckleton Pool at SD433287.

Area:

0.7 Hectares.

Reference:

80/00408

Ownership Boundaries:

The exact boundaries of ownership are unclear due to Flood Defence works, however it appears that the land outlined in red is NRA owned.
(see map)

Current Interest: *

The site is located on a tidal creek. The area is unimproved grassland with Reed Canary Grass (*Psalteries arundinacea*), Willow Herb (*Chamaenerion* sp.) along with Rye Grass (*Lolium perenne*). In addition some trees exist along the track.

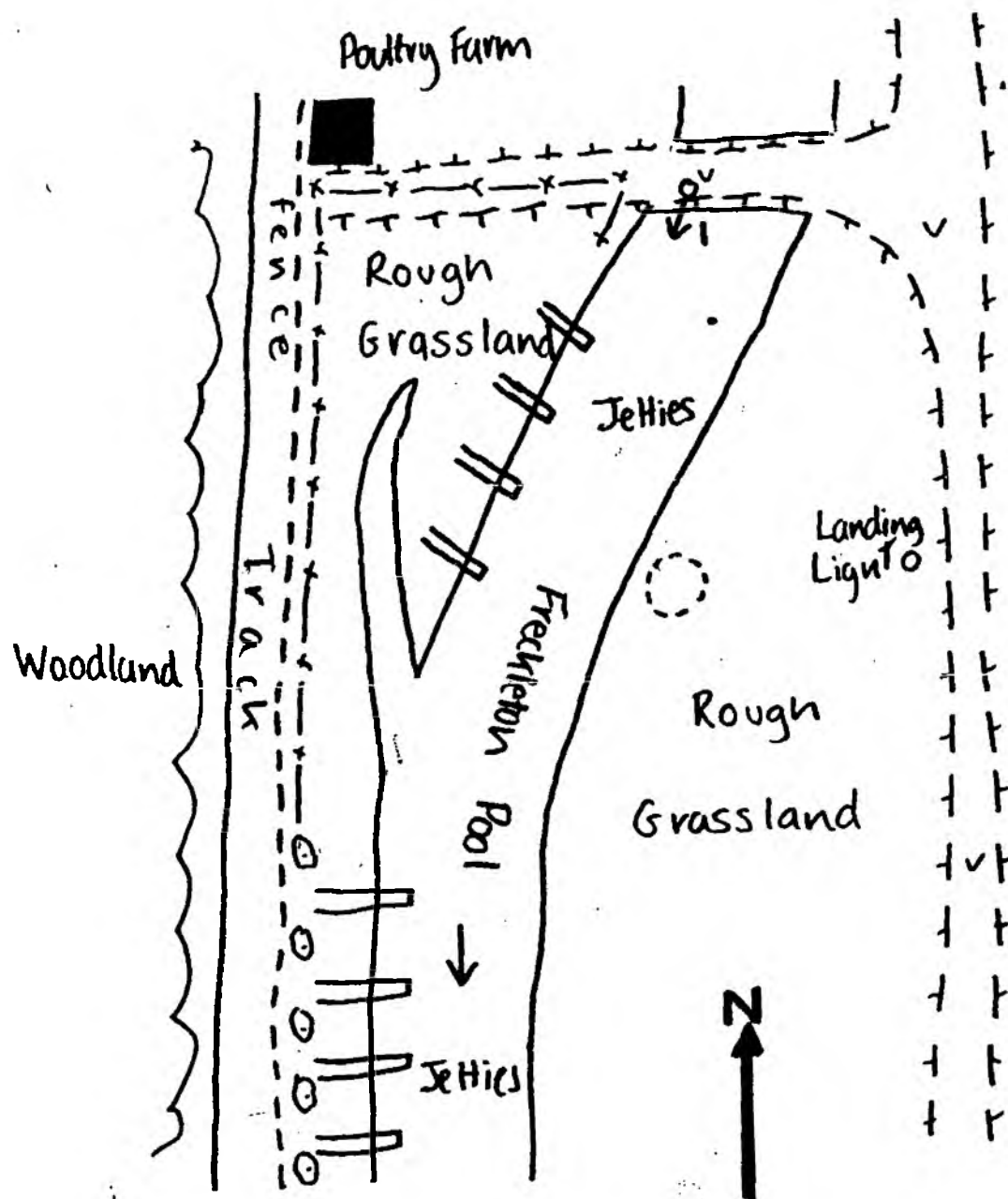
Most of the land adjoining the water is used for mooring boats, indeed the NRA has in the past erected some jetties for boat users.

Potential Enhancement: *

There is very little to be done here as the site is small and regularly used. However small groups of trees could be planted along with shrubs following the fence line.

Site Plan for Freckleton Pool

The area owned by the NRA is outlined in Red.
Scale 1:500



Garstang Depot

Location:

The site is located in Garstang by the River Cocker (SD488451).

Area:

0.6 Hectares

Reference:

-

Ownership Boundaries:

All that outlined in red.
(see map)

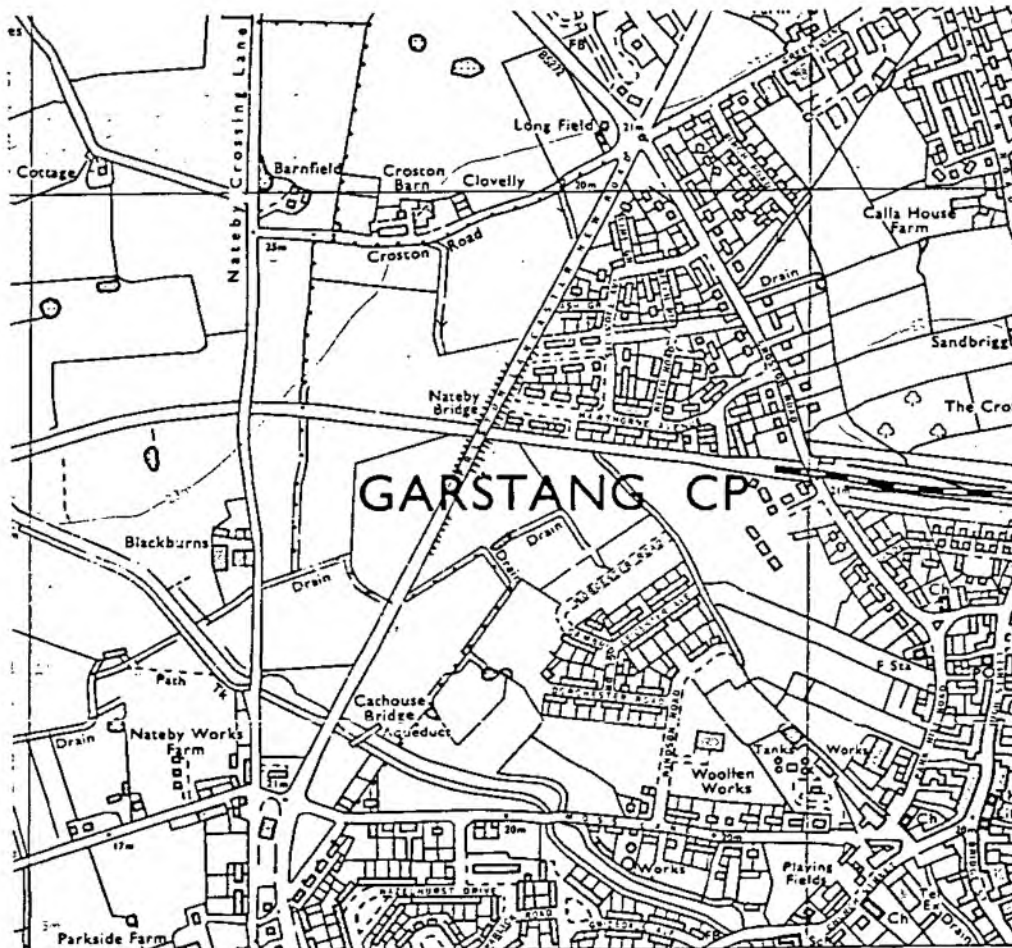
Current Interest: nil

The area is tarmacked and of no conservation interest.

Potential Enhancement: *

Bird and Bat boxes could be put up on the buildings.

Location of Garstang Depot



Great Hanging Bridge

Location:

The site is located at Great Hanging Bridge on the River Douglas at SD467179.

Area:

1.5 Hectares.

Reference:

82/00100

Ownership Boundaries:

The land within the red boundary is owned by the NRA.
(see map)

Current Interest: *

At present the land is divided up into two uses. Part of it is used as a storage depot with offices and the other is Flood Embankment which is predominantly Rye Grass (*Lolium perenne*).

A Weasel was seen on site along with a Cormorant

Potential Enhancement: **

The area within the depot itself would be difficult to enhance apart from the positioning of Bat and Bird Boxes. There maybe some room alongside Fiddlers Lane to plant a hedge or some native trees where there would be no interference with Flood Defence works.

Location of Great Hanging Bridge



Published by the American Medical Association, 535 North Dearborn Street, Chicago, Ill.

Subscription price, \$5.00 per annum in advance. Single copies, 15 cents.

Entered as second-class matter, May 2, 1917. Postpaid at special rate of \$3.75 per annum provided for by Act of October 3, 1917.

Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917, authorized on July 1, 1934.

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Hey Cop Pumping Station

Location:

The site is on the banks of the River Alt at the end of Monks Carr Lane (SD337039).

Area:

0.25 Hectares.

Reference:

81/00303/1,2

Ownership Boundaries:

All that outlined in red.
(see map)

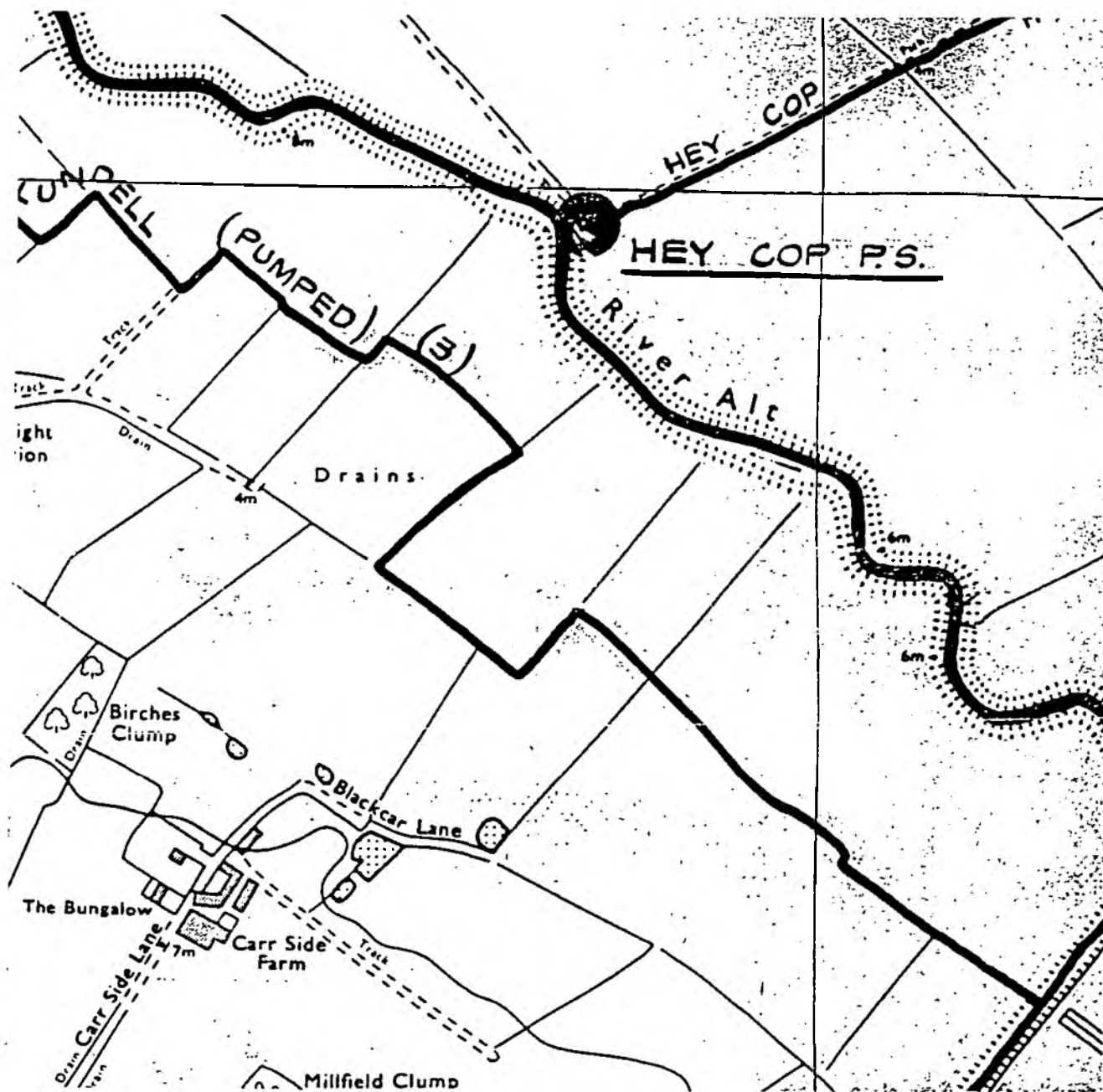
Current Interest: *

There is very little of interest on the site. Monoculture mown Rye Grass (*Lolium perenne*) dominates with some Willow Herb (*Chamaenerion* sp.) and Reed Canary Grass (*Psalteries arundinacea*) on the banks.

Potential Enhancement: **

The planting of some small trees and shrubs could be carried out along with a mowing regime to enhance wildlife. It may also be possible to transplant some Reed Canary Grass and other marginal plants. Some bird and bat boxes could be erected on the pumping station wall.

Location of Hey Cop Pumping Station



Ince Blundell Pumping Station

Location:

This is located on the River Alt (SD328045)

Area: -

0.01 Hectares

Reference:

80/99997

Ownership Boundaries:

All that outlined in red.

(see map)

Current Interest: *

There is very little of interest on the site. Monoculture mown Rye Grass (*Lolium perenne*) dominates with some Willow Herb (*Chamaenerion sp.*) and Reed Canary Grass (*Psalteries arundinacea*) on the banks.

Potential Enhancement: *

The planting of some small trees and shrubs could be carried to enhance wildlife.

Some bird and bat boxes could be erected on the pumping station wall.

Location of Ince Blundell Pumping Station



Lane Ends Amenity Area

Location:

The site is located near Pilling against the Sea embankments (SD413494).

Area:

2 Hectares.

Reference:

80/00396/4

Ownership Boundaries:

All that outlined in red.

(see map)

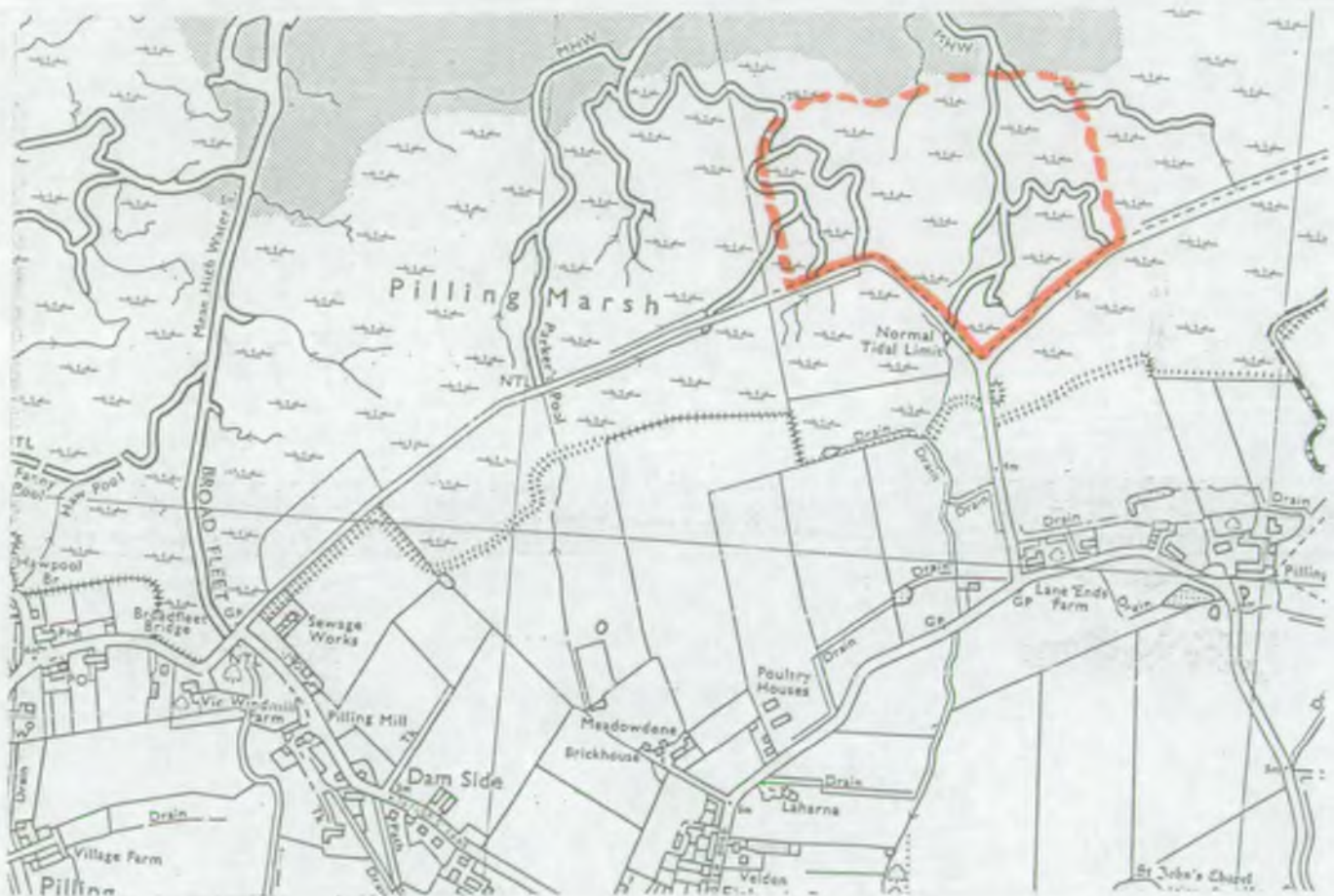
Current Interest: ****

This site has been developed with ponds and tree and shrub planting.

Potential Enhancement: *

The site has been developed with a management plan.
(see associated file)

Location of Lane Ends Amenity Area



Leyland Reservoir

Location:

The site is located east of Chorley over the M61 at SD603172.

Area:

6 Hectares

Reference:

-

Ownership Status:

All that outlined in red
(see map)

Current Interest: ***

At present this site is used as a fisheries base and storage area, prior to November 1992 it was used for flood defence training. There is a possibility that it will still be used for training although there are no firm plans in the immediate future.

Vehicular access needs to be maintained to the rear of the reservoir.

The front wall of the reservoir needs to be kept clear in order to comply with the reservoir act.

The settling tanks are used for stocking fish.

Access on foot over the outflow to the back of the reservoir is maintained.

In bad weather the farmer needs to get access through the yard and out of the gate in the field

Fisheries need to keep the vehicle tracks in usable condition.

There is an unsightly soil dump at the top of the reservoir.

The reservoir level is kept pretty constant.

A rapid survey appears to show that the whole site has conservation interest and not just the reservoir.

(Goosanders have been seen on the reservoir.)

(see photographs and map)

Potential Enhancement: ****

Before any enhancements are decided on a more accurate survey during the summer months must be carried out to ascertain that nothing of wildlife value will be destroyed by inappropriate enhancements.

Conservation would like the use of one of the settling tanks for a plant store. We would like to see this up and running as quickly as possible in time to take plants this spring. There may need to be some lowering of the water level in the tank.

The margins of the reservoir are dominated by Reed Canary Grass (*Phalaris arundinacea*) it would be beneficial to create more diversity in this area.

If the vehicle tracks are to be improved/restored then these must blend in with the rest of the site. The access must be limited to as small an area as possible to create

relatively undisturbed sections.

Rebuilding the dry stone wall around the site.

Some hedge tree planting (see map) will tie in with the trees already on the site and above/below it so creating a continuous tree corridor. (will too many trees affect the use of the reservoir by birds ?)

Mowing/clearing of the banks should be done sympathetically i.e timing to coincide with the end of the flowering period to encourage species diversity.

Location of Leyland Reservoir



Photographs of Leyland Reservoir

1.



2.



Meadow Lane Pumping Station

Location:

The site is situated at White Bridge on the River Douglas at SD468157.

Area:

0.6 hectares.

Reference:

82/00124

Ownership Boundaries:

The land within the red boundary is owned by the NRA.
(see map)

Current Interest: *

At present the land is used as a store and a Pumping Station. There is very little conservation interest, there is Rye Grass (*Lolium perenne*) on the banks.

Potential Enhancement: *

The boundary fences could be planted up with hedges, honeysuckle, ivy or other creepers. Some shrubs could be planted around the site and some Bird and Bat boxes could be set up on the buildings..

Location of Meadow Lane Pumping Station



Middle Drain

Location:

This runs from the confluence with The Back Drain (SD385499) to Caunces Road (SD398157).

Area:

The length of watercourse owned is about 5km long with the sloping bank. In addition there is a larger area of adjacent land owned just South of Hootons Cottages. That length in Sluice Covert is not included in this chapter.

Reference:

82/00082/21

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: **

The banks are a mixture of Rye Grass (*Lolium perenne*), Reed Canary Grass (*Phalaris arundinacea*), Willow Herb (*Chamaenerion* sp.), Common reed (*Phragmites communis*) and Bramble (*Rubex* sp.).

In addition there are a number of small Hawthorns and Willows.

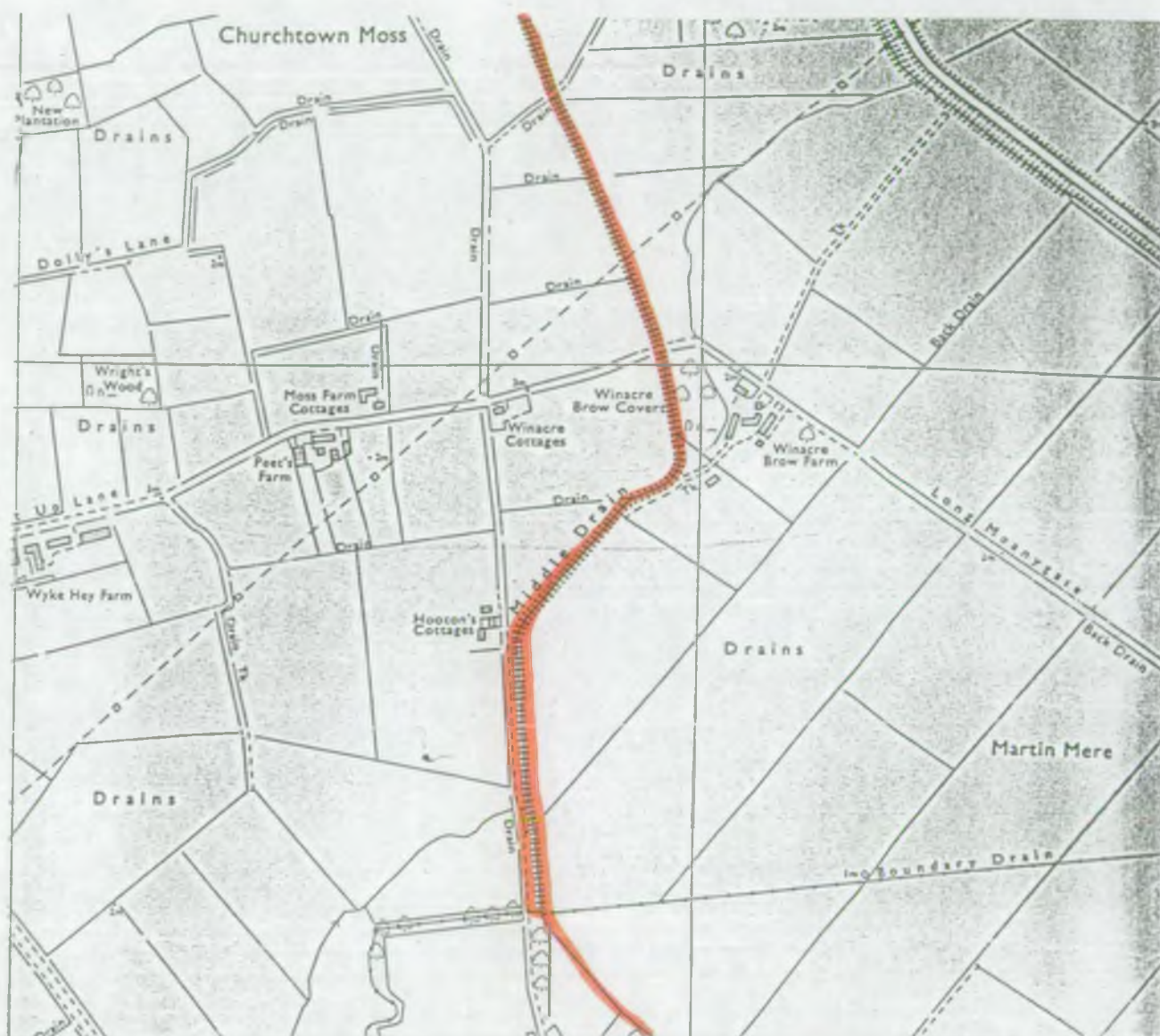
There is also some channel and marginal vegetation including Reed Sweet Grass (*Glyceria maxima*), Common Reedmace (*Typha latifolia*) and pondweed species.
(see photographs)

Potential Enhancement: ****

A mowing regime could be adopted on some of the sections and some marginals could also be planted.

In the area of land between the drain and the road south of Hootons Cottages which is currently rough land there is potential for tree and shrub planting on an area of 0.2 Hectares.

Location of Middle Drain



Photographs of Middle Drain

1.



2.



New Cut Pumping Station

Location:

The land is situated where New Cut joins Cheshire Lines (SD332080).

Area:

0.015 Hectares.

Reference:

82/000431/1

82/000431/2

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: *

There is a rough area of Willow Hebb (*Chamaenerion* sp.) and Reed Canary grass (*Psalteries arundinacea*). In addition there are some small Willow and Birch trees present.

Potential Enhancement: *

Some more trees and shrubs could be planted along with the erection of some bird and bat boxes on the building.

Location of New Cut Pumping Station



Pendlebury Brook

Location:

The area of land lies between Brook House Bridge (SJ508909) and (SJ512909).

Area:

1.5 Hectares.

Reference:

81/00356

Ownership Boundaries:

All that coloured in red.
(see map)

Current Interest: ***

The land adjacent to the left bank is spoil heap. It is predominantly ruderal in nature with the occasional scattered tree and shrub. The rest of the spoil is covered in Reed Canary Grass (*Psalteries arundinacea*). The relief of the land is one of high, steep sided slopes with a fairly limited flora.

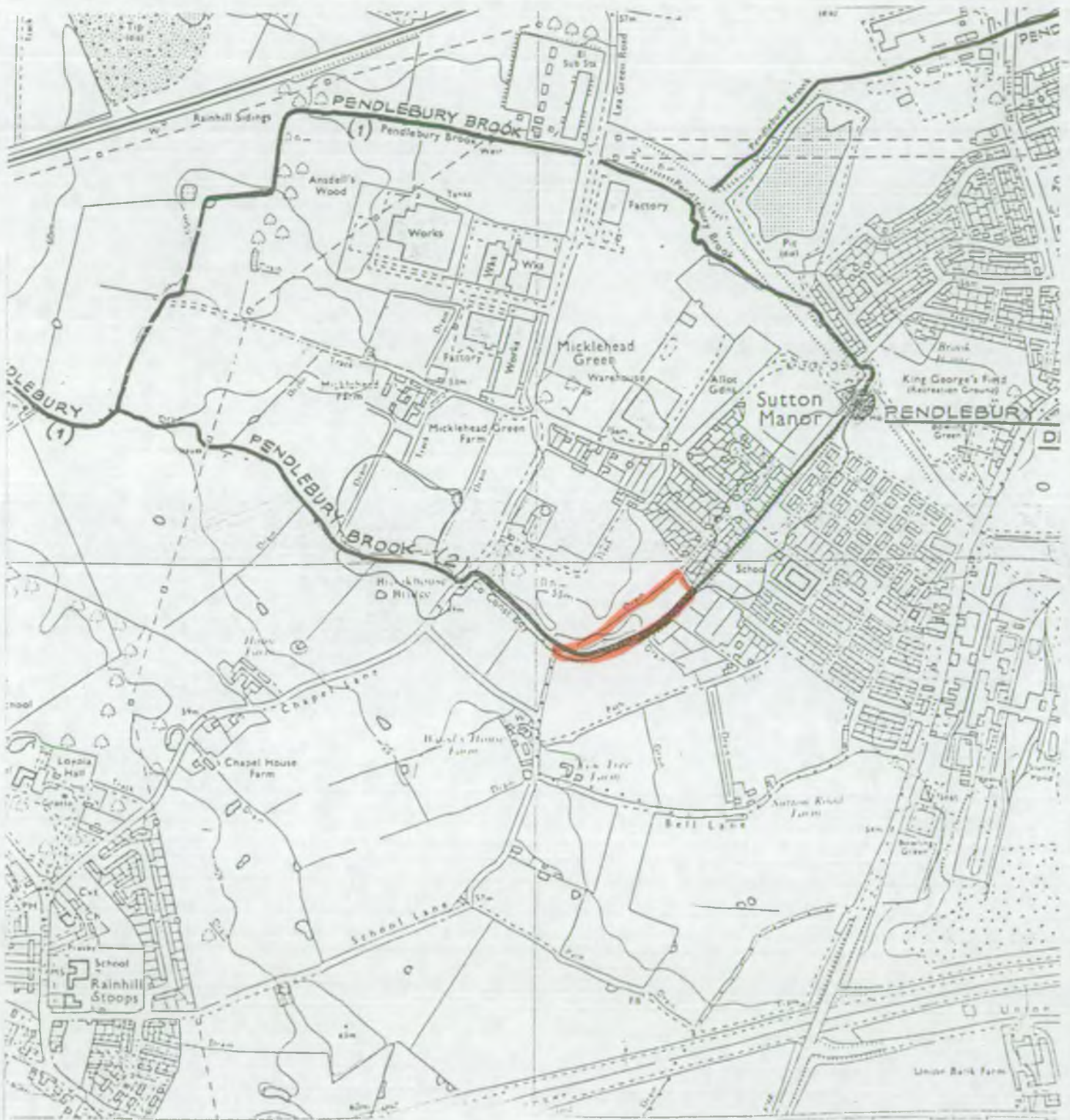
Some of the land has been taken over by farming. The channel is of considerable interest with Common Reedmace (*Typha latifolia*), Reed Canary Grass (*Psalteries arundinacea*), Soft rush (*Juncus effusus*) and Fools Watercress (*Apium nodiflorum*) present.
(see photographs)

Potential Enhancement: *****

There is much room for enhancement particularly when one considers the nature and extent of the land. A small woodland could be planted with the relief of the slope providing interesting features. Wildflower seed mixes could be introduced and a footpath could be constructed through the land.

This area of land could be developed into an interesting and diverse haven for wildlife on an old spoil tip close to a deprived urban area.

Location of Pendlebury Brook



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Photographs of Pendlebury Brook

1.



2.



Pendlebury Pumping Station

Location:

Situated off Walkers Lane in Sutton Manor (SJ

Area:

0.03 Hectares.

Reference:

81/00230

Ownership Boundaries:

All that outlined in red.

(see map)

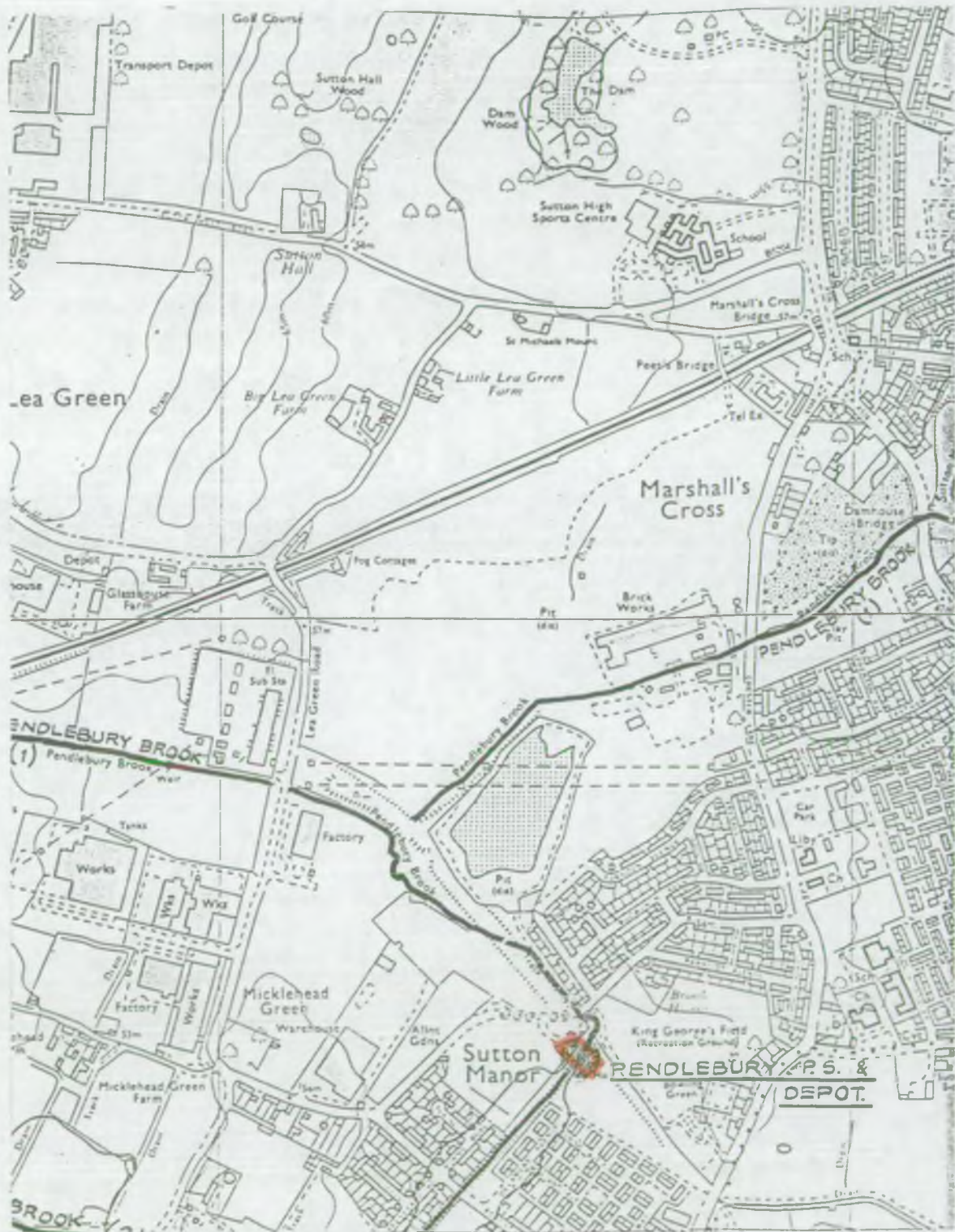
Current Interest: nil

Currently there is no conservation interest, the land being gravel with occasional grassy patches surrounding the pumphouse..

Potential Enhancement: *

The boundary fences could be planted up with hedges , honeysuckle, ivy or other creepers. Some shrubs could be planted around the site and some Bird and Bat boxes could be set up on the buildings:..

Location of Pendlebury Pumping Station



Pilling Sea Embankments

Location:

The land owned is sea embankment from Fluke Lane Sands (SD392500) to Cocker Bridge (SD452512).

Area:

17 Hectares

Reference:

80/00396/1

80/00396/2

80/00396/3

80/00396/6

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: **

The banks are of very little interest being rank monoculture Rye Grass (*Lolium perenne*). There is the occasional Hawthorn tree.

The northern boundary of the site adjoins Cockerham Sands National Nature Reserve which is a SSSI. Consequently the associated bird life is rich, making use of the embankment.

There are grazing rights associated with this land. In addition there are a number of semi circular ponds about 200 metres squared linked by a watercourse known as the Delph.

(see photographs)

Potential Enhancement: *****

Currently the site is rather poor but the close proximity of the the Nature Reserve would enhance the wildlife habitat in the area.

A mowing regime could be implemented and hardy shrubs and trees planted inland of the embankment where there is more shelter.

Parts of the embankment form sections of the Lancashire Coastal Way.

The mass of bird life and the presence of a public footpath makes the establishment of bird hides a possibility.

There is a great deal of potential for developing the Delph and its associated ponds. These could be planted up with marginal vegetation, trees and shrubs which are tolerant of windy conditions. The fact that the ponds are all linked by a 5 metre wide watercourse means that work would greatly benefit wildlife.

[illegible]

Photographs of Pilling Sea Embankments

1.



2.



Salmesbury Bottoms

Location:

The land owned is located at Salmesbury Bottoms and runs from ST 291618 to SD287621.

Area:

The length of river owned is approximately 650m.

Reference:

82/00139

Status:

The NRA has ownership of all of the bed and the two weirs present.
(see map)

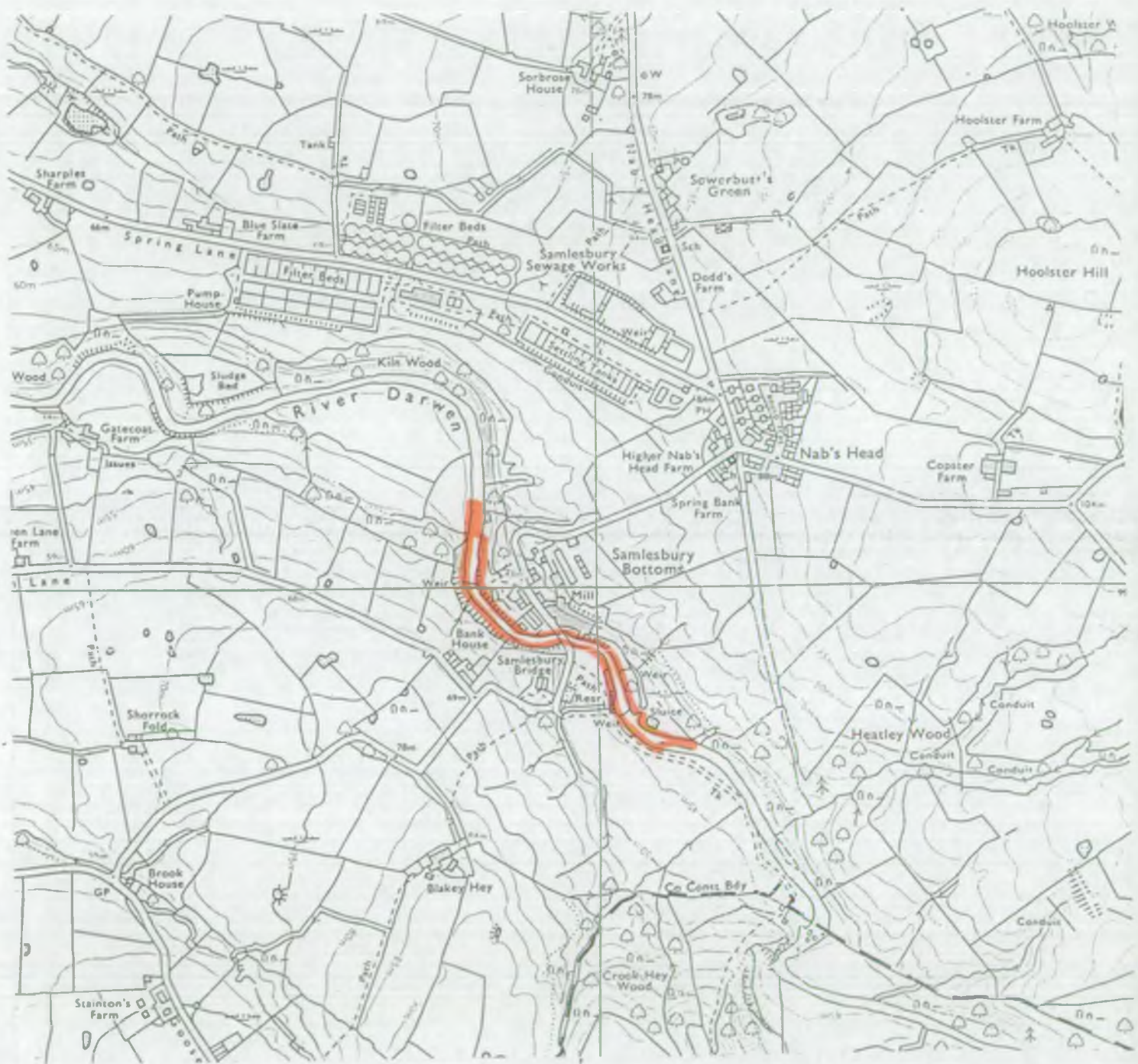
Current Interest: ***

The channel itself has a diverse range of features on account of the fact that the river has eroded down to Triassic Sandstones. This action has exposed bedding planes which produce a series of pools, riffles and rapids. In addition there are a number of islands within the channel which are mainly boulders though finer deposition has resulted in Butterbur (*Petasites*) and Giant Hogged (*Herbaceous mantegazzianum*) growth. In addition there is a spectacular weir which plunges into a boulder laden pool at one point. Part of the lower section is SSSI, SBI and Ancient Woodland.
(see photographs)

Enhancement Potential: *

There is very little enhancement work to be done as so little land is owned. However the invasive vegetation on the islands could be controlled in some way and trees and shrubs planted.

Location of Salmesbury Bottoms



Photographs of Salmesbury Bottoms

1.



2.



Sandy Brook

Location:

A section running from Pitts House Farm (SD371173) to the bridge just east of New House Farm (SD375157).

Area:

1 Hectare

Reference:

82/00082/4

82/00082/9

Ownership Boundaries:

All that outlined in red.
(see map)

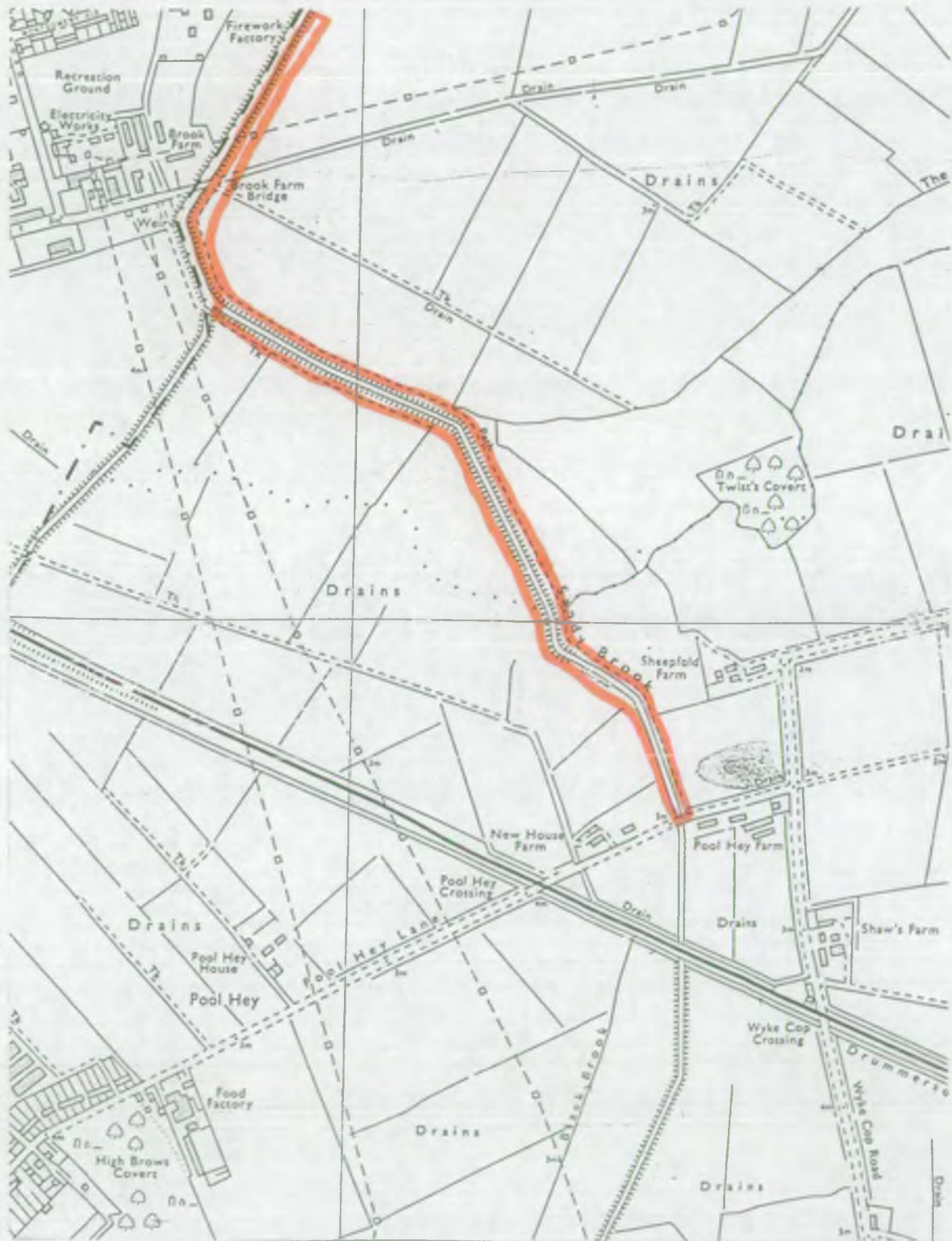
Current Interest: *

There is very little interest, the banks being of monoculture grass which is mown regularly. Some sections of the land have been taken over by arable farming.

Potential Enhancement: *

The land could be planted with small trees and shrubs and sown with conservation seed mix.

Location of Sandy Brook



The Sluice

Location:

The section owned runs from where The Sluice runs parallel alongside Back Drain (SD381205) to the confluence of Boat House Sluice and Rufford Boundary Sluice (SD421162).

Area:

4.5 Hectares

Reference:

82/00082/07

82/00082/14

82/00082/18

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: **

Most of the land owned is monoculture grass however on the margins and banks there is more diversity. Common bank species include Bramble (*Rubex* sp.), Willow Herb (*Chamaenerion* sp.) and Bracken. The marginal vegetation includes Common Reed (*Phragmites angusta*), Reed Canary Grass (*Psalteries arundinacea*), Reed Sweet Grass (*Glyceria maxima*) along with some Common Reedmace (*Typha latifolia*). Channel vegetation is not common, however there is Waterstarwort (*Callitriche* sp.) and Fools Watercress (*Apium nodiflorum*) in the Back Drain. In places there are trees such as Jeffreys Covert and Six Fields Covert, species include Ash, Hawthorn, Sycamore, Oak, Gorse and Willow.

There is a rich variety of bird life along the watercourse including Kestrels, Jays, Coots, Moorhens, Herons, Swans, Tufted Ducks, Mallards, Pink Footed Geese, Pheasant and Snipe. There is much evidence of rabbit life too.

(see photographs)

Potential Enhancement: ***

This is a long linear section of ownership which already has quite a rich variety of wildlife. Despite this there is still some room for improvement. Primarily the monoculture grass on the banks should be sown with conservation seed mix to attract insect life. In addition some small trees and shrubs could be planted which would not damage the banks.

Hedge reinstatement could be carried out in places and at the junction with Tarleton Runner a small group of trees could certainly be planted. The boundary bank alongside Six Fields Covert could be cleared of Willow Herb and some Bramble and planted up with trees.

Location of The Sluice



Photographs of The Sluice

3.



4.



Photographs of The Sluice

1.



2.



Sluice Covert

Location:

The land is located where Middle Drain meets Back Drain (SD384198)

Area:

4 Hectares

Reference:

82/00082/20

Ownership Boundaries:

All that outlined in solid red. That outlined in dotted red is owned by the NRA according to the deeds but is now arable land used by the farmer.
(see map)

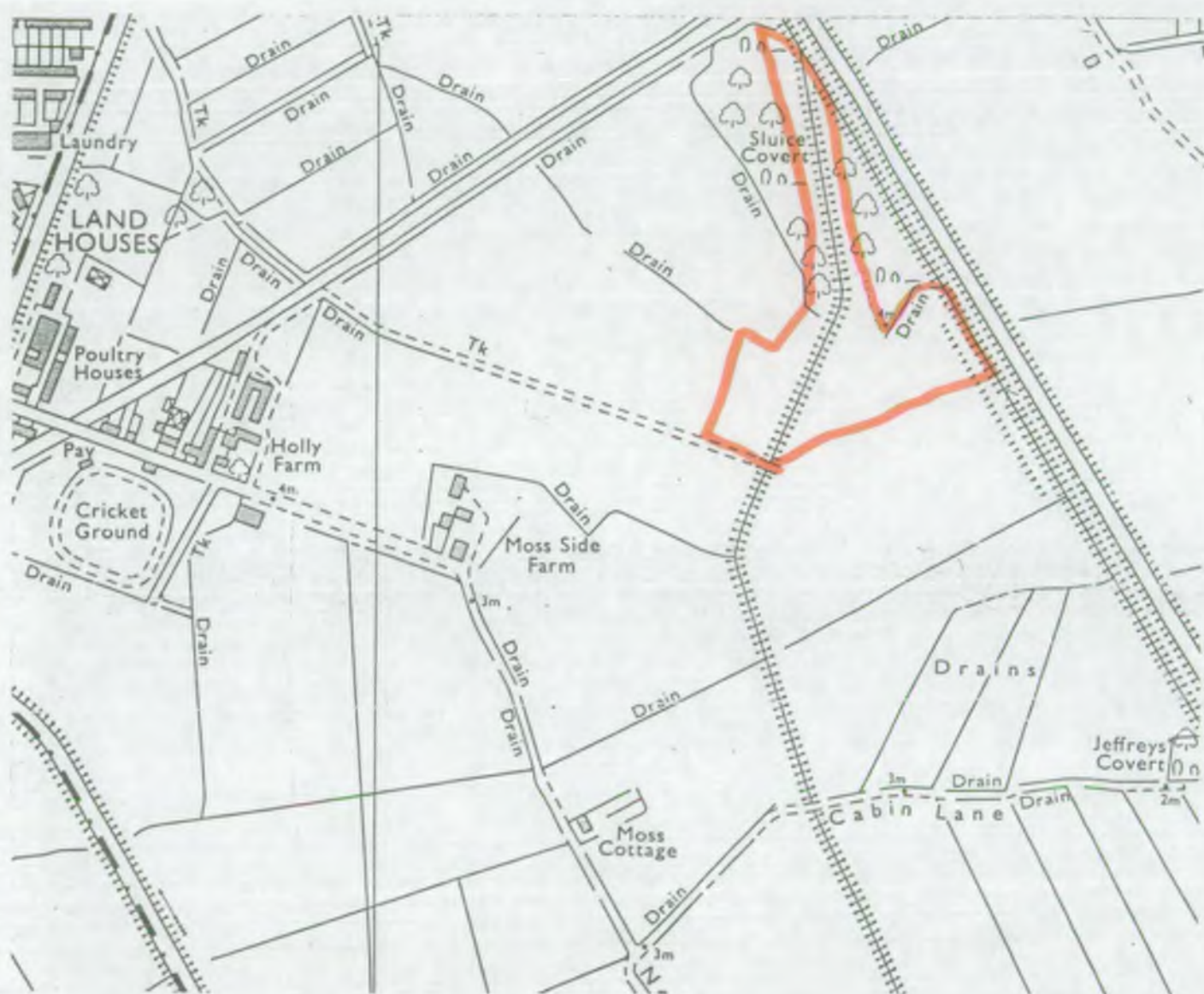
Current Interest: ***

Common bank species include Bramble (*Rubex* sp.), Willow Herb (*Chamaenerion* sp.), Reed Canary Grass (*Psalteries arundinacea*) and Bracken along with Rye Grass (*Lolium perenne*). The marginal vegetation includes Common Reed (*Phragmites angusta*), Reed Canary Grass (*Psalteries arundinacea*) and Reed Sweet Grass (*Glyceria maxima*). Channel vegetation is not common, however there is Waterstarwort (*Callitriche* sp.). In addition there are a number of trees in places, species include Ash, Hawthorn, Sycamore, Oak and Willow. There is a rich variety of bird life along the watercourse including Kestrels, Jays, Coots, Moorhens, Herons, Swans, Tufted Ducks, Mallards and Pheasant. There is much evidence of rabbit life too.
(see photographs)

Potential Enhancement: *****

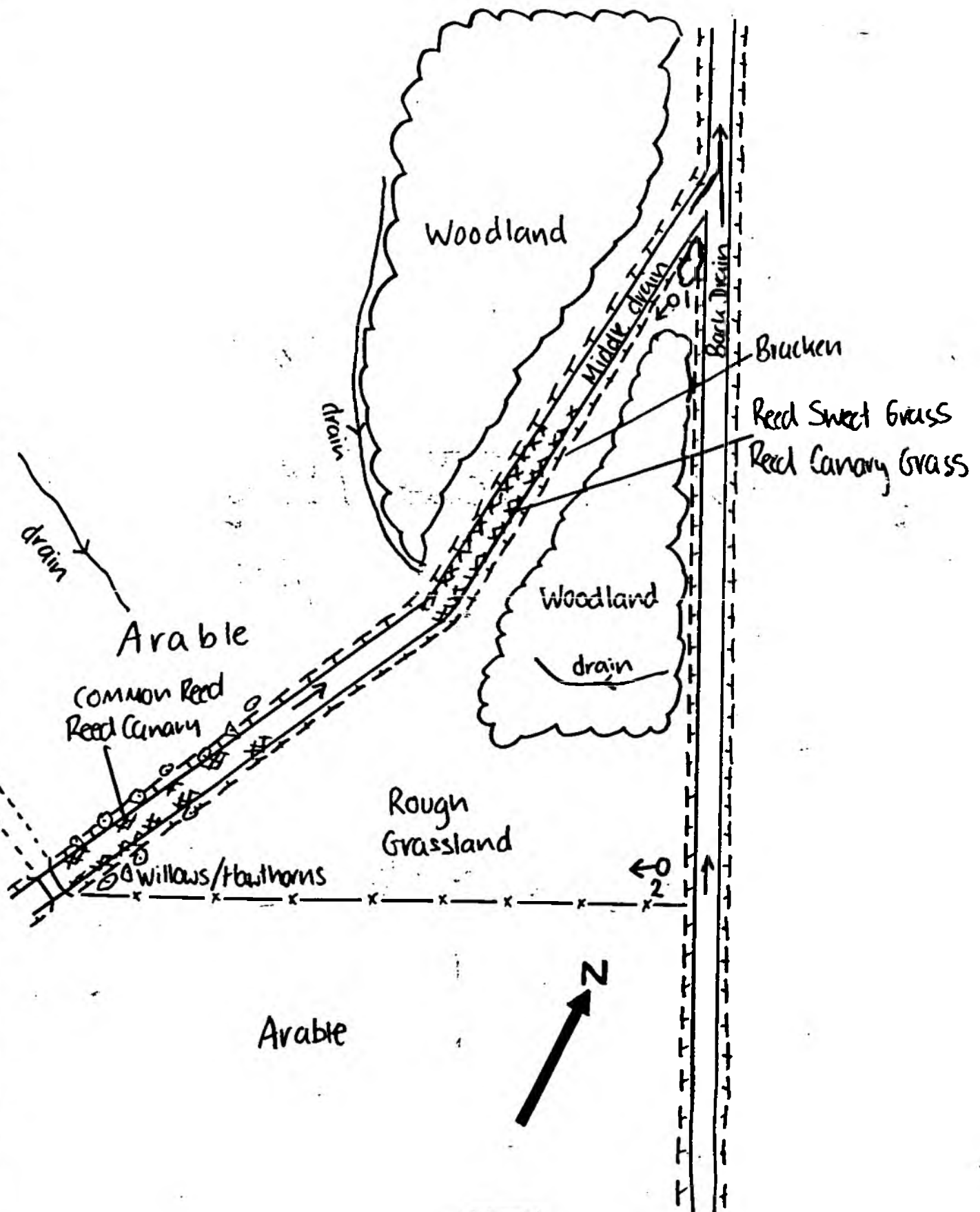
This is a fairly large area of land which already has quite a rich variety of wildlife. Despite this there is still some room for improvement. Primarily the monoculture grass on the banks should be sown with conservation seed mix to attract insect life. In addition some small trees and shrubs could be planted which would not damage the banks. Hedge reinstatement could be carried out in places along boundaries. The area of land on the left bank which lies between the Middle Drain and Back Drain is willow scrub with a drain running through it, this area could be dug out to provide quite an extensive wetland area with associated plants and shrubs.

Location of Sluice Covert



Site plan for Sluice Covert

All that within the Red Boundary is owned by the NRA.
Scale 1:1500



Photographs of Sluice Covert

1.



2.



Sollom Pumping Station

Location:

The land is located on the River Douglas by Great Hanging Bridge (SD465184).

Area:

0.03 Hectares.

Reference:

80/99997

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: *

The site is surrounded by monoculture mown Rye Grass.
(*Lolium perenne*).

Potential Enhancement: *

There is very little which can be done apart from adopting a mowing regime and putting bird and bat boxes on the building.

Location of Sollom Pumping Station



Witcher Well

Location:

The site is located in the Dunsop Valley. (SD713523)

Area:

1 Hectare.

Reference:

82/00104

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: ****

The site is located within the Forest of Bowland AONB and is partly used as a fish hatchery. It is covered by acid moorland vegetation and bordered on one side by extensive conifer plantation.

The land slopes upwards from the valley floor towards the plantation and is covered in strips of Bracken, Heather (*Calluna vulgaris*) and heavily grazed patches of grass. There are areas of acid grassland with Wavy Hair Grass (*Deschampsia flexes*) and Rye Grass (*Lolium perenne*).

There are a number of small streams running through the site which create small areas of marsh. The streams are abundant in Waterstarwort (*Callitriche sp.*).

The marshy areas contain mosses and large amounts of Soft and Hard Rush (*Juncus effusus* and *Juncus flexes*).

There are also areas of Thistle (*Cirsium sp.*), Nettle (*Rustic dioica*) and some Willow Herb (*Chamaenerion sp.*) on disturbed areas.

(see photograph)

Potential Enhancement: **

Any development should wait until a new tank has been built to deal with pollution problems. However future proposals could include some small groups of upland trees such as Aspen, Birch and Scots Pine. However development should take into account the fact that the land is natural and is typical of upland acid moorland and hence schemes should be kept to a minimum.

BOWLAND FOREST HIGH CP

Foot of Helms
BM 167.97m

Hare Edge

Cross Cough

Aqueduct

glider Moor Breast

Tank

Beatrix Fell

Beatrix

Cattle

Rain Gauge

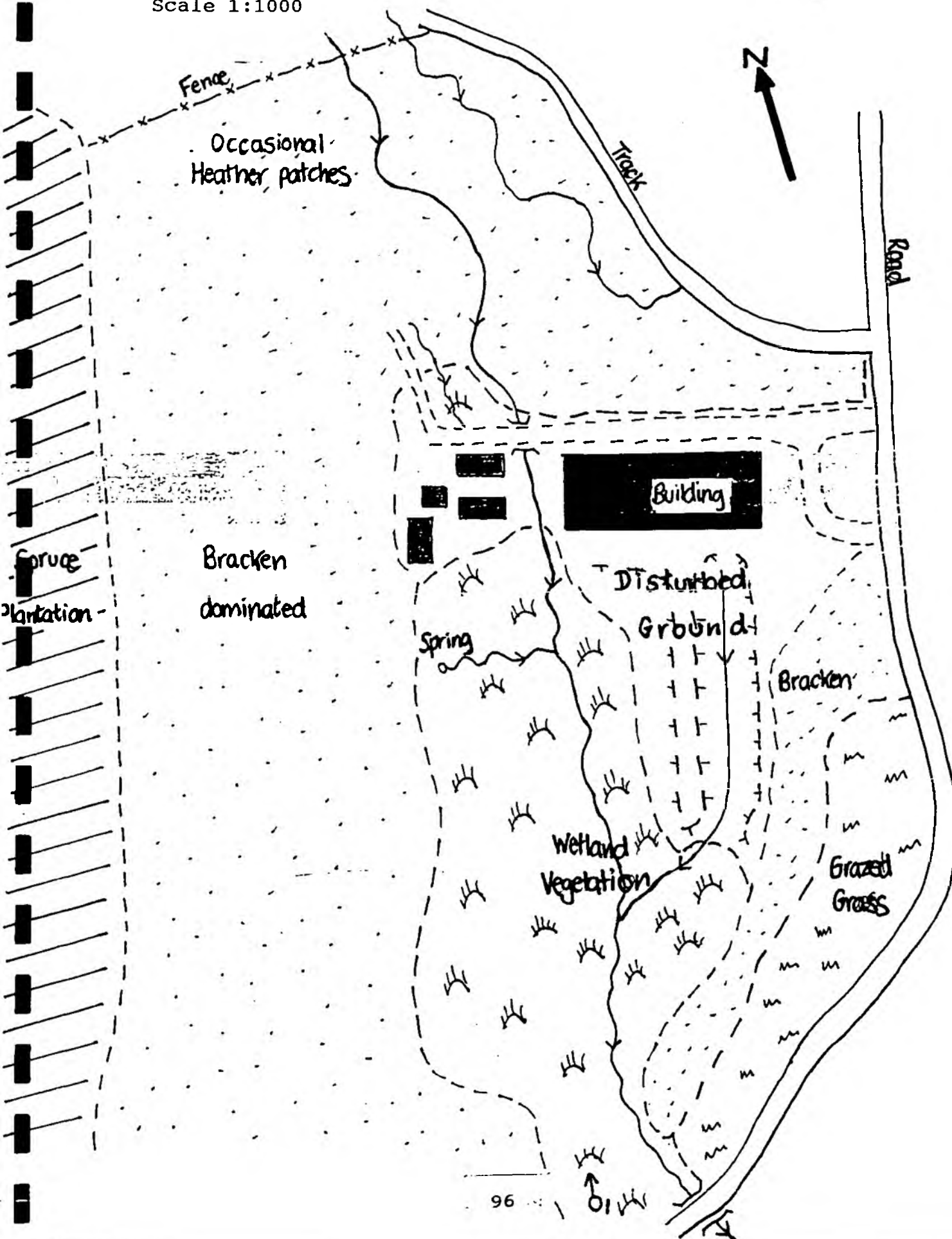
Bishop's House
BM 138.73m

Bishop's Cottage

Rain Gauge

Site plan for Witcher Well

All that within the Red Boundary is owned by the NRA.
Scale 1:1000



Photograph of Witcher Well



Abbotsfield

Location:

The site is located south of St Helens (SJ540920)

Area:

0.75 Hectares

Reference:

-

Ownership Boundaries:

All that outlined in red.
(see map)

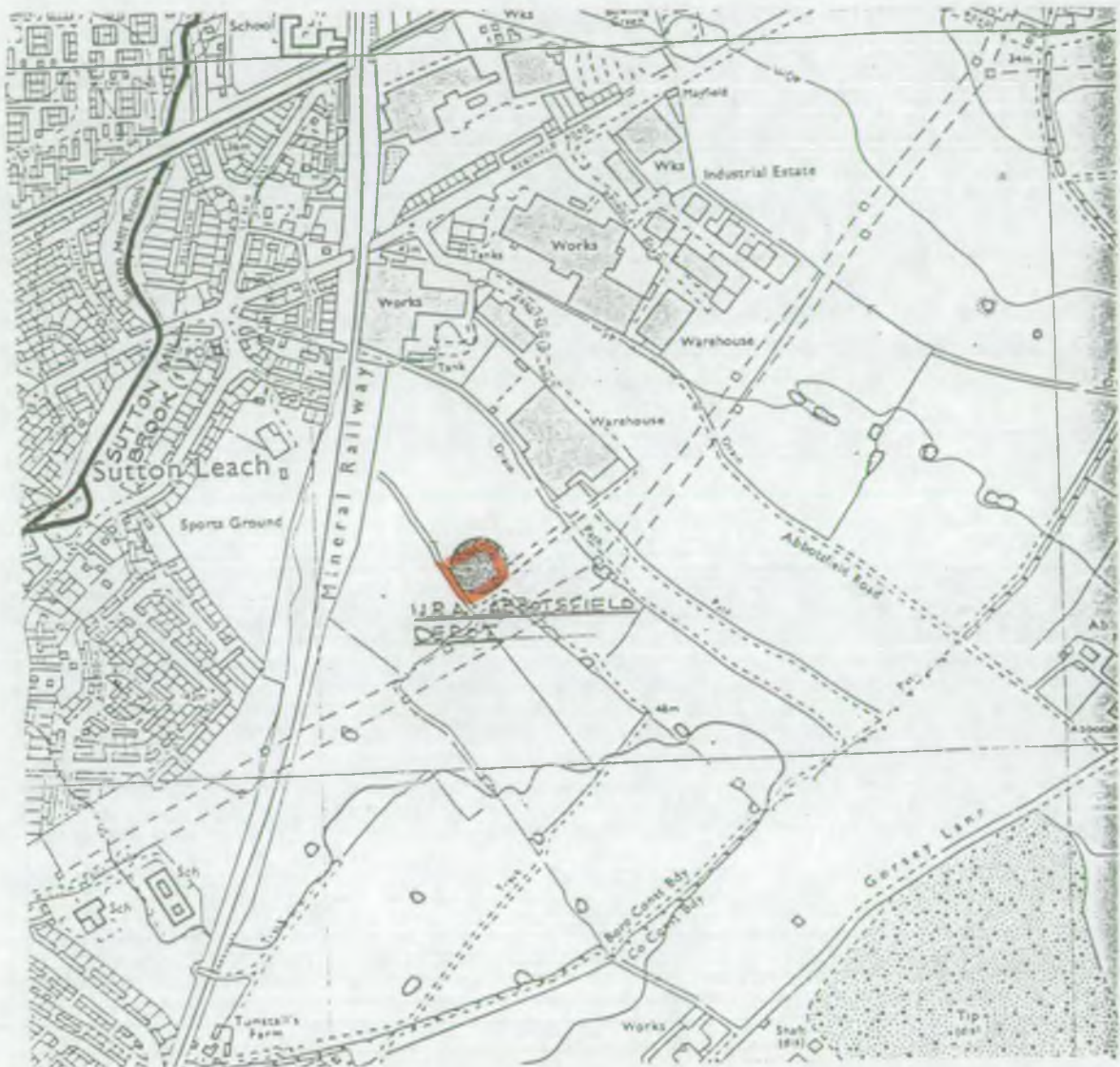
Current Interest: nil

There is very little of interest, the site is covered in concrete and hard core and used as astorage depot.

Potential Enhancement: *

There is the potential for erection of some bird and bat boxes on the buildings. It maybe possible to plant some small shrubs along the boundary fence.

Location of Abbotsfield



Altmouth Pumping Station

Location:

The site is located in an army camp near Hightown
(SD295044)

Area:

1.5 Hectares

Reference:

-

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: *

The land is predominantly mown Rye Grass (*Lolium perenne*) and buildings. Some planting of trees and shrubs has taken place including Silver Birch and Cherry. However, the area is very windswept and as a result vegetation is severely affected.

Potential Enhancement: **

Due to the nature of the strong winds, enhancements are limited to those with good resistance to strong coastal winds. Some small hardy species could be planted along with the adoption of mowing regimes.

Location of Altmouth Pumping Station



Langcliffe Reservoir

Location:

The land is located just north of Settle (SD8166653).

Area:

4 Hectares

Reference:

82/00131/2

Ownership Boundaries:

All that outlined in red.
(see map)

Current Interest: ****

The reader is advised to consult the file concerning this site
(see photographs)

Potential Enhancement:

The reader is advised to consult the file concerning this site

Location of Langcliffe Reservoir

