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**Selected NRC contracts** (excludes farm woodland/conservation plans/grant applications and small projects).

1987/1988	Research for NCC into "Land Use Policy Changes - Implications for Agriculture and Nature Conservation in Southern Ayrshire and Lanarkshire". It included interviewing 100 farmers on their problems, plans and attitudes towards conservation & forestry.
1989	Research for NCC into how to increase use of native seed for growing native trees.
1989-1992	Full Environmental Assessment (EA) of Auchinleck Estate development proposals: golf courses, hotel, and housing. Woodland Management Plan. <i>For Seddon Group.</i>
1989 - 1992	Assessment of ecological impacts of: M6 Extension to Scottish Border; A74: M74 upgrades between Gretna & Kirkpatrick Fleming; and Kirkpatrick Fleming & Ecclefechan; and proposed M80 between Stepps & Hags (two routes at each). <i>With ASH for the Babbie Group and the SO Roads Directorate. (MoT for M6).</i>
1991	Conservation Plan for Catrine Voes - old reservoirs in an Ayrshire village - <i>for community group (SDA funded).</i>
1991	Assessment of wildlife benefits of Breadalbane ESA. <i>For the Scottish Wildlife Trust (World Wide Fund for Nature funded).</i>
1991/1992	Pilot Research and Outline Business Plan for Cumnock and Doon Valley Countryside Project <i>(Enterprise Ayrshire funded).</i>
1992	Floristic survey of Berwick Ramparts and prescriptions for improving floristic diversity <i>(with Ecoscape for Berwick Borough Council and English Heritage).</i>
1992	National Vegetation Classification of 1200 ha of Galloway uplands, notes on ecological succession. For EA for <i>Scottish Woodlands Ltd</i> forestry scheme.
1992/1993	Woodland Management Study for Woodroad Park, Cumnock <i>(for Council).</i> Reconciling recreation & wildlife conservation in an ancient semi-natural woodland.
1992 - 1997	Full EIA for Skares opencast site near Cumnock <i>(for Rackwood Colliery Company).</i> Organised archaeology, architecture, hydrology, hydrogeology & soil assessments; undertook EclA. Prepared ES. Gave evidence at public hearing in June 1996. Scoping & revisions to ES for revised plans in 1997.
1993	Ecological assessment of Howierigg proposed opencast coal and fireclay site, Falkirk <i>(for J.W.H. Ross and Co. on behalf of Coal Contractors Ltd).</i>
1993	Feasibility study on designating Witchwood Pond and environs, Coatbridge as a Local Nature Reserve <i>(for CSCT and Monklands District Council).</i>
1993/1994	Revision of 1990 EIA of M80 Stepps to Hags. Full EclA of Kelvin Valley M80 route: Phase 1 & Phase 2 Surveys and watercourses assessment; organising bird & mammal surveys; impact assessment and mitigation. <i>With ASH for the Babbie Group.</i>
1993/1994/1995	Full EIA for Harehill Wind Farm, New Cumnock <i>(for landowner).</i> Preparing EclA, compiling with landscape and noise assessments, by other consultants, into Environmental Statement (ES). Gave evidence at public inquiry in 1995.
1994	Woodland Management Plan for Bothwell Castle Grounds SSSI. <i>Prepared for Clyde Calders Project, Hamilton District Council and SNH</i>

- 1994/1995            Grazing studies for *National Trust for Scotland* on three properties (Ben Lomond, Kintail and Torridon). Assessing composition of plant communities and using MLURI model to assess grazing impact. SNH indicators of habitat condition tested.
- 1994/1995            Scoping Study & EIA of Broom Hill OCCS, Ayrshire (*for Coal Contractors Ltd.*). Ecological & hydrological assessments, co-ordinating (geology, hydrogeology, soils, landscape/visibility, socio-economic, archaeology & recreation) sub-contractors. Input to operation and restoration plans. Preparing ES.
- 1994, 1996 - 2001    Ecology, soil, hydrology and history assessments for Burnfoot Moor opencast site, by Muirkirk (*for Clay Colliery Co Ltd*). Input to proposals, Writing ES with client and writing non-technical summary. Organised Black Grouse monitoring.
- 1995/1996            Appraising 39 Phase 1 Millennium Forest for Scotland (MFS) projects; tying up 60 P1 project proposals; compiling Scottish Native Woods P2 project plan. Appraising another P2 project. Co-ordinating P3 applications from Ayrshire and preparing 3 project plans. Appraising 8 other P3 projects. *For MFS Trust*.
- 1995/1996            Feasibility of Lowland Crofting in Ayrshire. With Alastair Murdoch Partnership (architects) for *Enterprise Ayrshire*. Study W Lothian examples, planning policies and rural housing market, finding suitable site. Took plan of holdings, woodlands, habitats, energy etc on farm in Ayrshire, to outline planning permission.
- 1995/1996            NVC and habitat condition surveys of Allanton Plains bog, Loudoun Hill. Revised restoration plans for Loudoun Hill quarry and Allanton Plains extension, in consultation with SNH, SWT and District Council. *For Tilcon Ltd*.
- 1995 - 1997            E Ayrshire Native & Community Woodlands Initiative (MFS Phase 1 & P2 projects). In P1, with Treewise, preparing strategy for P2, financial monitoring, implementing 2 pilot projects & preparing database of P2 work sites. *Reporting to steering group led by E Ayrshire Council*. In P2, survey & design of 5 spring 1997 planting sites & obtaining FC grant. This led to E Ayrshire Woodlands being established. Handover.
- 1996                    Advisers to *RSK Environment* on the “Review of Opencast Mining Operation in Scotland” for the *Scottish Office Development Department*.
- 1996                    Loch Lomond Golf Course. EclA of a proposal to build golf lodges in the out-of-play areas. *Commissioned by RSK Ltd for Loch Lomond Club*.
- 1996                    Preparation of restoration plan for Hall of Auchincross OCCS, *for Miller Mining*
- 1996 - 1997            Scoping Study for EIA of Lochlea OCCS, Ayrshire. EclA, hydrological & soil assessments, helping co-ordinate EIA. *For RH Consultancy & Crouch Mining Ltd*.
- 1996, 1998            Ecol IA of Grievehill OCCS, New Cumnock, *for Scottish Coal*. Desk study/initial evaluation; surveys; impact assessment; mitigation. Update for smaller site in 1998.
- 1997                    Ecological study of Samye Ling retreat centre site on Holy Island (Arran) *with Nicholas Pearson Associates for Andrew Wright Associates (Architects)*.
- 1997                    Ecological survey and evaluation of Gartarry Cross proposed opencast site near Clackmannan. Phase 1 and fauna surveys. *For Miller Mining*.
- 1997                    EclA of Big Idea project, Ardeer, *for Nobel Exhibition Trust*. Phase 1 & NVC surveys, organising bird surveys, evaluation, impact assessment/mitigation.
- 1997                    Ecological study of haul routes between Glentaggart OCCS and Dalquandy Disposal Point: Phase 1 survey, discussion of ecological issues. *For Scottish Coal*

- 1997 - 1998 Environmental scoping study for proposed opencast coal site at High Craig Quarry, Johnstone, *for Coal Contractors and Tarmac Ltd.*
- 1997 - 1998 *Woodland Trust* New Woods Ground Flora Project. Phase 1 survey. Baseline records of plots for flora establishment trials. Post - treatment monitoring of plots.
- 1997 - 1998 Woodland & hedge plans & input to open habitat plans in Management Plan for Skares Road OCCS. Conservation Grant Scheme application. Work with E. Ayrshire Woodlands on planting plans. *For Rackwood and ATH Resources.*
- 1997 - 1998 Management Plan for Crarae Forest Garden (MFS Phase 2 project) and assistance with initial project management. *For Crarae Gardens Charitable Trust.*
- 1997 - 2000. Project managers with *National Trust for Scotland*, of Culzean-Dunure Coastal Wood Restoration Project (MFS, P3). With 4 partners & 5 landowners. Prepared MFS Project Plan, Work Prog, Management Plan & Forestry grant applications.
- 1998 Phase 1 Habitat Survey and overseeing bird survey at Greenburn Proposed OCCS, New Cumnock. *For EAG Environ.*
- 1998 *Irvine Bogside Golf Club.* Appraisal of ES for proposed Bogside Landfill Site, and identification of potential impacts on golf club.
- 1998 Ecol IA of retail park at Newhouse, N Lanarkshire, for *Turnbull Jeffrey Partnership.*
- 1998 Vegetation history of Inver Estate, Jura from maps & air photos. Prepare 1: 10,000 Map of "recent" vegetation and map changes from 1963 – 1988. *For landowner.*
- 1998 Woodland Management Guidance: Part 1: Ecological Management Process. Aid to decision making in semi-natural woods focussing on the impacts of operations on woodland ecosystems. *For Scottish Natural Heritage (SNH).*
- 1998 First ecological surveys of *National Trust for Scotland* properties at West Kittochside (south), Holmwood & Geilston. CPS application for first. Further survey at Geilston.
- 1998 - 1999 Planning report/scoping for Kilmearn OCCS, E Ayrshire. Phase 1 Habitat Survey. Organise archaeological & landscape appraisals. Oversee follow-up surveys (birds, mammals). *For Coal Contractors Ltd.*
- 1998 - 1999 Ecological survey/evaluation of Rigghead opencast site (& Wellhill extension) New Cumnock, E Ayrshire. PI Survey, overseeing mammal survey. *For Miller Mining.*
- 1998 – 2001 Directing projects and 7 staff engaged in native woodland restoration at Scottish Native Woods. Maintaining/enhancing professional standards. Ensuring funders' targets were met/overseeing claims to funders. *For SNW trustees.*
- 1999 West of Scotland Water, Coastal Communities. Ecological scoping of options for facilities in Kilchattan, Bute and Strachur, Lochgoilhead & Tighnabruaich, Cowal. *For Turnbull Jeffrey Partnership and Ove Arup.*
- 1999 Ecol IA of Burnfoot Moor Opencast Site Extension. P1 Survey of extension site and haul route. Draft restoration proposals for extension site. Consultations, evaluation, impact assessment, mitigation and monitoring recommendations. *For RJB Mining*
- 1999 - 2000 Vegetation survey of 2 lines of fortifications at Mull of Galloway and preparing management recommendations. *With CFA, Edin Univ, for Historic Scotland.*
- 1999 - 2002 1999: Ecol IA of golf course-holiday complex at Southern Gales, Irvine. Scoping; update & extend 1995 Phase 1 & NVC surveys, commission bird survey; evaluation,

impact assessment/mitigation. 2000: Follow-up advice, oversee further surveys. 2001: Addendum to EclA for relocated buildings. Ongoing advice during construction. *For Keppie Planning/Castle 2000 Property Devpts Ltd.*

- 1999 - 2002 EIA for golf course/holiday development at Midross, Loch Lomond. Prepared EclA, sub-contracting otter, bat and bird surveys & wrote non-technical summary of ES. Co-ordinated hydrology, landscape, archaeology, recreation and socio-economic studies. In 1999 for *Midross Enterprises*. Woodland Management Plan and updated Ecol IA for revised development in 2002 for *Tyton Design/the de Vere Group*.
- 2000 Feasibility of establishing a nature reserve at the M73/M74/M8 interchanges at Baillieston and Maryville. Survey and report with recommendations. *For David Wilson Associates and Clyde Local Authority Consortium.*
- 2000 Greenlaw Farm Proposed Housing/Business Park, Newton Mearns. EclA. Including extended Phase I Habitat Survey and overseeing mammal & amphibian studies For *Turnbull Jeffrey Partnership (TJP) on behalf of Elphinstone Group.*
- 2000 M74 Extension to Kingston Bridge, Glasgow. Update ecological chapter in 1995 EA. Phase 1 survey and oversee aquatic mammals survey. *For Ove Arup & Partners on behalf of City of Glasgow and South Lanarkshire Council.*
- 2000 Burnhouse Brae Woods, Galston. P1 survey, plant lists by compartment, provisional NVC, path mapping, management recommendations. *For E Ayrshire Woodlands.*
- 2000 Deaconsbank, Glasgow. Scoping report and ecological appraisal for input into an environmentally-led residential development masterplan. *For TJP & Elphinstone Gp.*
- 2000 – 2001 Wildlife impact assessment of Belford Lodge housing, Edinburgh. Phase 1 survey, NVC survey of woods, oversee mammal survey. *For David Wilson Associates on behalf of Stewart Milne Homes. Update in 2001 for Farningham McCreddie Partnership Ltd on behalf of Gregor Properties.*
- 2000 – 2001 Coalfield Environmental Initiative. Scoping study and strategic framework for Scottish Coal sites west of the A74. *For Scottish Coal and partners.*
- 2000 – 2002 Greenlaw Park. Provisional ecological appraisal for larger site than earlier in 2000 for revised masterplan. EclA. *For Derek Lovejoy Partner (DLP) & Greenlaw P'ship.*
- 2000 – 2002 Preparing field guide to common bryophytes in native woods of Scotland. *Millennium Award, via MFST. 2nd edition (funded by SNH) & 3rd editions published*
- 2001 Elie House, Fife. Provisional Ecological Assessment for Residential Development. *For Alexander Braidwood Ltd/Keppie Planning.*
- 2001 Advise *Touchstone Heritage Consultants* on lower plants trail at Ardentinnny Wood, Cowal. Supply bryophyte photographs to *Forest Enterprise* for leaflet and boards.
- 2001 Ottoline Drive/Wilson Avenue Troon Planning Appeals. Prepare Darley Wood Report (NVC Survey, Evaluation, Assess Impacts of proposed housing). Expert witness at Public Local Inquiry. *For South Ayrshire Council.*
- 2001 – 2002 Further botanical surveys at Burnfoot Moor Opencast Site Extension and overseeing bird and mammal Surveys. *For UK Coal Ltd.*
- 2001 – 2002 Gartcosh roadside facilities. Scoping and P1 surveys for 2 sites, commission bat survey at one site, prepare Ecol IA for 2<sup>nd</sup> site. *For McInally Associates and clients.*
- 2001 – 2002 Inverliever Windfarm, Argyll. Scoping, P1 & NVC surveys, advise on ecological

- constraints, commission butterfly & mammal surveys. Input to habitat mgt plan. EclA & Appendices for ES. For *EnvirosAspinwall & Scottish Power*
- 2001 – 2003 Loch Lomond & Trossachs Local Forestry Framework. Forest ecologist to *Land Use Consultants* for *Loch Lomond & Trossachs NP Interim Committee, FCS & SNH*.
- 2002 Conservation Management Plan for Powharnal OCCS & mitigation areas in Muirkirk Uplands pSPA/SSSI, in association with ADAS, to SNH spec. For *Scottish Coal*.
- 2002 Ecological input to Environmental Studies at Robroyston & Parkhouse, Glasgow. PI surveys; oversee bird & mammal assessments, ID constraints/opportunities. For *DLP*
- 2002 –2003 Survey woods at Glen Logan, Sorn, Ayrshire. Ecological/silvicultural assessment & prescriptions for future management. For *East Ayrshire Woodlands* and landowner.
- 2002 - 2003 Ecological input to Helensburgh Golf Club Masterplan. P1 & habitat condition surveys, organise bird & mammal surveys. ID constraints & areas for housing/golf course extension. For *Elphinstone Group & Helensburgh GC*.
- 2003 Pilmuir Roadside Services proposal, Newton Mearns. P1 Survey, organising bird & mammal surveys. Provisional report/recommendations. For *Elphinstone Group*.
- 2003 Outline Woodland Management Plan for tree groups and woodlands at Cameron House, Loch Lomond. For *Tyton Design* and the *de Vere Group*.
- 2003 Management Plan for Auchinleck Meadow SINC – in connection with housing development at Robroyston. For *DLP & Stewart Milne Homes*.
- 2003 Earlsburn windfarm, Stirlingshire. Ecology chapter of ES: compile survey data, liaison, commission bird surveys, undertake botanical survey, nature conservation evaluation, impact assessment/mitigation. For *West Coast Energy*.
- 2003 – 2004 Biodiversity Study of Golf Courses. Collate data, new P1 & P2 surveys, assess current biodiversity & since golf development/management changes. 2 new courses (Elmwood & The Dukes in Fife); 1 old course (Linlithgow). Survey Reports, Biodiversity Reports and Summary/Discussion paper. For *Scottish Golf Environment Group*. Paper at SGE 2004 conference.
- 2003 – 2004 Clyde Windfarm, South Lanarkshire. Advice on forestry aspects of the EIA, writing forestry sections for ES. For *Land Use Consultants and Airtricity Ltd*.
- 2003 – 2004 North Quarter Farm, Hamilton, Proposed Mineral Extraction Site. Carrying out vegetation surveys, organising bird and mammal surveys. For *J.W.H Ross & Co*.
- 2004 Ettrick Bay, Bute. Assessing effects of subsoil deposits on flora of Ettrick Bay. For *Mount Stuart Trust, Bute Estate*
- 2004 Machrihanish Dunes Golf Course. Scoping, ecological surveys (NVC, organise BBS), input to golf course design, assess residual impacts of development in SSSI. Prepare EclA for ES. For *Tyton Design and Brightside Developments*.
- 2004 Wildlife Surveys of Belleisle & Seafield Golf Courses, Ayr. P1 survey and oversee bird & mammal surveys. Survey Report with evaluation & management proposals. For *South Ayrshire Council*.
- 2004 NVC Survey of Shewalton Sandpits Reserve. For *Scottish Wildlife Trust*.
- 2004 Phase 1 Survey of Dundonald Golf Course, Irvine (formerly Southern Gables), organising breeding bird survey, provision of advice for management plan. For

*Mike Wood Consulting and the Loch Lomond Golf Club.*

- 2004 - 2005 Wildlife Tourism in South & East Ayrshire & South Lanarkshire. Advice on site suitability / ecological sensitivity. *For RSK Era and Southern Uplands Partnership.*
- 2005 A737 Upgrades, N Ayrshire. P1 survey of 2 sections of road, organising other wildlife surveys, compiling reports. *For Royal Haskoning Environment UK*
- 2005 Cameron House Management Plan. Integrate historical, landscape, recreation & ecological data, analysis, zoned prescriptions. *For Tyton Design & de Vere Group.*
- 2005 – 2008 Midross/The Carrick Golf & Leisure Resort. Prepare Habitat Protection Statement, Nature Reserve & Habitat Management Plans, update 2002 Woodland Plan, liaison with NPA & others. Initial implementation of plans, monitoring, text & photos for golf course wildlife guide and other ecological advice. Handover to Ranger in autumn 2007 *For The De Vere Group.* 2008: ecological and forestry aspects of planning applications for practice ground and halfway house. *For De Vere Hotels.*
- 2005 – 2009 Greenlaw Park. Further ecological surveys of retained habitats; habitat management plan; ecological surveys & report for Patterton Roundabout site; Conservation plan for retained wood at Patterton. Start implementation of Management Plans, project ecologist for *The Greenlaw Consortium* during infrastructure phase.
- 2006 Boghead Reservoir Site P1 survey & provisional evaluation/impact assessment of excavation/restoration project. *For JWH Ross and Co/Doonin Plant Ltd.*
- 2006 *Woodland Trust* Exploring Scotland's Woodlands. Field researcher for approx 20 Scotland sites. Visits, contact owners/managers, assessment forms, photography.
- 2006 - 2008 Grassyards Fishery. 2006: co-ordinate EIA: commission visual impact and mammal surveys, Phase 1 survey, input to proposals, prepare EclA chapter and compile ES. *For applicant.* 2008: revise EclA for revised proposal. *For owner.*
- 2006 – 2011 Machrihanish Dunes GC: Input to revised layout and construction method statement with DMK Golf Design and Tyton Design. Ecological Clerk of Works during the build working with DMK, greenstaff and SNH. Prepare management plan with green staff for SNH approval. Ongoing ecological monitoring of fixed quadrats and orchid transects and advice. *For Brightside Developments/Kintyre Developments*
- 2006 – 2010 Woodland Trust Woods Under Threat Project. Guidance on ecological status/indicators of longevity at SNH Ancient Woodland Inventory sites with development proposals. Comment on Ecol IAs where available. 2008: provisional survey of Kilnhill Forest, Nairn; P2 surveys of woodlands on route of Aberdeen bypass, precognition and evidence at public inquiry; survey of windfarm locations at Montreathmont Moor. 2009: survey ancient woodland sites in Glasgow and Galloway. 2010: Dall Estate and South Rannoch Forest surveys.
- 2006 & 2009 Research into ancient woodland vascular plants species, consultations and prepare provisional lists. Article in NWDG newsletter in 2006. Update in 2009 with further data, review and consultation leading to paper in *Scottish Forestry,*
- 2007 Phase 1 Habitat Survey of Housing site at Woodside Estate, Beith. *For owner.*
- 2008 Phase 2 botanical survey of Isobel Mair School site, Greenlaw and report with recommendations. *For East Renfrewshire Council.*
- 2007 – 2009 Lochside House Hotel golf course and leisure development, East Ayrshire. Phase 1 Survey and organise protected mammal survey. Identify ecological constraints and make input to draft EclA chapter being prepared by *Alexander Associates for the*

*owner and Lochside Developments Ltd. On hold.*

2008 – ongoing	Collation of notable plant data for coastal sites in Ayrshire and Arran for LBAP Coastal HAP. Towards strategy for coastal plants. Mostly voluntary but contributions from <i>North and South Ayrshire Councils</i> .
2008 – 2009	Arran Strategic Road Link. Organise mammal survey, 1 year bird study and undertake Phase 1 & NVC survey and draft EclA chapter. <i>For Johnson Poole &amp; Bloomer &amp; Forestry Commission Scotland</i>
2009 – 2011	Auchrannie Resort, Arran. Phase 1 Habitat Survey, organise bat and otter surveys and bird assessment, Phase 2 survey of unimproved grassland. EclA and Ecology Chapter for Es. In core design team <i>For Keppie Planning and Auchrannie Leisure</i> .
2009	Survey to remap species-rich grassland (mostly CG10) on the 2 farms in the Aldons Hills SSSI, Lendalfoot. <i>For Scottish Natural Heritage</i> .
2009 – 2011	Sward monitoring of farms in the Lendalfoot Grassland Scheme in summer and winter each year. 10 farms reducing to 4 by winter 2010/11.
2009 - 2011	Craig Farm Balmaclellan. Revisit Barnshalloch Forest and update 1998 ecological survey and recommendations in line with D&G LBAP. <i>For owners</i>
2010	Phase 2 vegetation surveys of proposed land swap sites at Edinburgh Zoo and adjoining Edinburgh City Council land and comparative evaluation. <i>For Sue Bell Ecology and Edinburgh City Council</i> .
2010 – 2011	Phase 1 and NVC surveys of The Ayrshire golf course site in Irvine. Organised bird, butterfly and reptile surveys. Work with Central Environmental Surveys on impact assessment and mitigation. <i>For Tyton Design and Credential Holdings</i>
2011	Ecological survey of Parkhouse Cutting, Ardrossan. Undertake Phase 1 habitat survey and Phase 2 botanical surveys and organise bird assessments. Collate with existing data into reports. <i>For Meriel Young Consultancy Services and Sustrans</i> .
2011	Organise mammal and tree surveys at proposed housing site in Motherwell. Summary report. <i>For GD Lodge and Kiltane Developments Ltd.</i>

## Current projects

- **Turnberry Golf Courses.** Preparing Management Plans for the three GCs with GC Manager. Undertake vegetation surveys, organise bird and butterfly surveys. *For Luxury Collection Resorts.*
- **Peatsafe.** Fieldwork and literature review to assist with development of methodology for assessing condition of blanket bog prior to awarding carbon credits for *RSK ERA and Alladale Estate.*
- **Proposed freshwater fishery near Girvan.** Phase 1 and Phase 2 surveys of riparian site where new pond and infrastructure are proposed. *For Ayrshire Rivers Trust and Carrick Angling Club.*
- **Tarbet, Loch Lomond.** Scoping, Ecological Surveys and Ecological Impact Assessment for Masterplan Project. *For Commercial Investment Properties.*

