



environmental technology

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r³ is a consultancy and research company specialising in the re-use of wastes (particularly MBT and composting), contaminated land remediation (particularly using bioremediation, and for biomass production), river basin management, and sustainability appraisal. It carries out consultancy feasibility studies, research (including experimental work) and information management via networks, databases and web systems.

Technical consultancy and product development, for example:

- appraisal of composting and remediation technologies and, process development and project development (various clients),
- compost / soil improver standards and audit development (various clients);

Research and development, for example:

- integrated approaches to river basin management (EC Project)
- use of composts and mechanical biological treatment outputs (Grantscape)
- sustainability appraisal and decision support for contaminated land and waste management (various projects funded by –e.g.– EC, (Defra) Environment Agency, see www.umweltbundesamt.at/en/clarinet)

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Feasibility studies, for example:

- the *Markham Willows* project (linkage of biomass, remediation / risk management, compost re-use and land regeneration with job creation and economic and social regeneration) with exSite Research Limited, Groundwork UK and others,
- feasibility study for the UK CL:AIRE contaminated sites demonstration network - www.claire.co.uk

Information management, for example:

- EUGRIS the EC funded European portal for contaminated land and water information – www.soilandwater.info
- EURODEMO EC project co-ordinating demonstration projects – on line project and funding databases - www.eurodemo.info
- Compost Bibliography web site (Phase 1) – www.compostinfo.info
- NICOLE web site, reports and newsletter (Network for Contaminated Land in Europe) - www.nicole.org

Commercial support e.g. product entry, service development – various clients

where

r³ Environmental Technology Ltd
At Dept. Soil Science
Whiteknights,
PO Box 233
Reading
RG6 6DW

www.r3environmental.co.uk

E-mail: paul@r3environmental.co.uk

Tel +44 (0)118 378 8164 Fax: +44 (0) 870 1640 633

Some Current and Recent Projects

AQUATERRA: Integrated modelling of the river-sediment-soil-groundwater system: advanced tools for the management of catchment areas and river basins in the context of global change (current)

EURODEMO: European platform for demonstration of efficient soil and groundwater remediation (current)

EUGRIS European Contaminated Land and Groundwater Information Service, a web based portal (current)

Market development of composts derived from different organic waste streams (current)

NICOLE Web Site, meeting reports and newsletter (current)

Collation of existing information on the composting and analysis of feedstocks and products of mechanically separated fractions of municipal solid waste. (Completed 2003 but regularly updated)

Technical support for the Markham Willows composting/SRC/land reclamation project (completed 2004)

Detailed planning for the Markham Willows composting/SRC/land reclamation project. (completed 2003)

Feasibility study for civic amenity waste recycling for Stockton on Tees Borough Council (completed 2003)

Non-biological and biological technique case studies for CIRIA (completed 2003)

Technical support for WRC PLC study on compost standards carried out for WRAP (completed 2002).

CLARINET: Contaminated Land Rehabilitation Network For Environmental Technologies, focusing on risk management and decision support tools (completed 2002)

Marginal land restoration: information review and scoping study (completed 2001)

Some Recent Publications

Nathanail, J. Bardos, P. & Nathanail, P. (2002 *and* 2007) Contaminated Land Management Ready Reference. EPP Publications/ Land Quality Press. Available from: EPP Publications, 6 Eastbourne Road, Chiswick, London, W4 3EB. E-mail enquiries@epppublications.com ISBN 1900995069. www.readyreference.co.uk

Chapman, A., Bardos, P., Bishop, H., and Wheeler, R. (2007) Investigating the market potential and beneficial properties of mixed-waste CLO. Composting News 11 (2) 38- 41 Composting Association, Wellingborough, UK. www.compost.org.uk

Bardos, R.P. (2006) Report of the NICOLE 1996-2006 Ten Year Network Anniversary Workshop: Making Management of Contaminated Land an Obsolete Business - Challenges for the Future. 5 to October 2006, Leuven, Belgium Land Contamination and Reclamation, 15 (1) 94-144

Herivaux, C., Loubier, S., Bouzit, B., Strosser, P., Chapman, A., Bardos, P., Ansink, E., Ruijs, A., Maring, L., Gerrits, L. and Jan Joziassse (2005) Generic conceptual representation of river basin, and methodological guidelines to construct such a representation with a participatory approach. Deliverable No.: INTEGRATOR I1.3 EC Framework 6 Project AquaTerra, Project no. 505428 (GOCE). www.eu-aquaterra.de

Bardos, R.P. (2005) Composting of Mechanically Segregated Fractions of Municipal Solid Waste – A Review. Project Carried out for SITA Environmental Trust, The Barn, Brinkmarsh Lane, Falfield, GL12 8PT. www.compostinfo.info

Nathanail, C.P. and Bardos, R.P. (2004) Reclamation of Contaminated Land Wiley and Sons. ISBN 0471985600 <http://www.wileyurope.com/WileyCDA/WileyTitle/productCd-0471985619.html>