

Herman van Dam

Consultant Water and Nature

1. **Surname** : van Dam
 2. **Name** : Herman
 3. **Date of birth** : 08-11-1947
 4. **Nationality** : Dutch
 5. **Civil status** : Single
 6. **Education** :

<i>Institutions :</i>	Wageningen University, University of Nijmegen
<i>Date: from(months/year) to (months/year)</i>	January 1981 – May 1987
<i>Degree(s) or diploma(s) :</i>	PhD Environmental Sciences

<i>Institutions :</i>	University of Amsterdam, University of Leiden
<i>Date: from(months/year) to (months/year)</i>	October 1965 – June 1973
<i>Degree(s) or diploma(s) :</i>	MSc Biology

7. **Language skills:** (Mark 1 to 5 for competence, where 5 is the highest)

<i>Language</i>	<i>Passive</i>	<i>Spoken</i>	<i>Written</i>
English	5	5	5
French	3	2	2
German	5	4	3
Dutch	Mother tongue		

8. **Membership of professional bodies:**

Working Group Ecological Water Management, Netherlands-Flemish Society for Ecology, Netherlands Institution of Biologists (NIBI), Netherlands Society for Water Management (NVA), Netherlands-Flemish Circle of Diatomists, International Society for Diatom Research, International Limnological Society

9. **Other skills (e.g. computer literacy, etc.):**

Word, Excel, Canoco (multivariate statistics), management of integrated projects, development of water quality assessment systems

10. **Present position:** Starting as independent Senior -consultant Ecology

11. **Years within the company:** -

12. **Key qualifications:**

Dr. Herman van Dam is an aquatic ecologist with a broad experience on water and nature in The Netherlands and other European countries. He worked for 20 years as a research scientist (mainly on phytobenthos and monitoring in freshwater ecosystems, also on aquatic macrophytes and macro-invertebrates) for the Ministry of Agriculture, Nature and Fisheries. From 1994 to 1999 he was the Head of the taxonomical department of AquaSense, including experts of macro-invertebrates, phytoplankton, phytobenthos and macrophytes.

Recently he was the leader of several inter-institutional projects to develop nation wide systems for ecological assessment of water quality. He was a member of the Netherlands Expert team for setting reference conditions and standards, as a part of the implementation of the European Water Framework Directive and was involved in the EcoSurv-project for the developments of methods to assess Ecological Quality Ratio's in Hungarian rivers and lakes.

He participates in extensive national and international networks of researchers, consultants and agencies. By writing over 200 professional reports and journal papers and by presenting oral papers he has learned to present the essentials of complex situations clearly. He

transferred his expert knowledge by giving training courses for aquatic ecologists and analysts.

13. Specific experience (in EU member countries)

Country	Date : from (months/year) to (months/year)	Name and brief description of the project
Netherlands, Belgium, Denmark, Germany	1982-1983	Development of a system to assess acidification of surface waters by means of diatom analysis
A, CZ, D, EST, FR, H, I, L, N, NL, PL, S, SP, UK	1989-1994	Member of Programme Task Force of the International Co-operative Programme on Assessment and Monitoring of Acidification of Rivers and Lakes (Convention on Long-Range Transboundary Air Pollution)
FR, D, I, L, UK, SP, S, PL, EST, N, CZ, H, A, NL,	1995-1996	International standardization of sampling methods for benthic diatoms for water quality assessments in European running waters.
Austria	1998-1999	Development of a trophic indicator system in running waters by means of phytobenthos (diatoms)
Hungary	2004-2005	International expert macrophytes, phytoplankton and phytobenthos for implementation of the European Water Framework Directive

14. Professional experience

Date : from (months/year) to (months/year)	May 1999 July 2006
Location	Amsterdam
Company	Grontmij AquaSense
Position	Senior -consultant Ecology
Description	<p>As a senior -ecologist Herman van Dam is involved in many different smaller and larger projects, often as a leader and often also as a collaborator. He enjoys to transfer his large expertise to junior -consultants. A selection of activities:</p> <ul style="list-style-type: none"> • International expert implementation Water Framework Directive in Hungary • Expert Dutch group for Implementation of Water Framework Directive • Instructor Monitoring in WFD Turkey Project (SENTER) • Development of systems for ecological assessment of water quality (brackish water, urban water, moorland pools) • Monitoring of phytoplankton in rivers (International Rhine Commission) • System for trophic assessment with diatoms in Austrian running waters • Monitoring of moorland pools in the period 1900 to 2004 in programs for acidification reduction and climatic change • Monitoring of effects of eutrophication reduction programs in lakes • Restoration of moorland pools • Forensic science • Water quality expert in legal procedures

Date : from (months/year) to (months/year)	June 1994 – May 1999
Location	Wageningen
Company	AquaSense
Position	Head of Department of Taxonomy
Description	<p>In this period Herman van Dam was responsible for the acquisition and performance of many smaller and larger projects, mainly funded by water authorities. The projects involved sampling, analysis and reporting of monitoring results of water chemistry, phytoplankton, phytobenthos, macrophytes and macro-invertebrates. In this period he improved his social skills in order to change from a pure science driven expert to a consultant</p>

CURRICULUM VITAE	Dr. Herman van Dam
	primarily willing to serve the companies clients.

<i>Date :</i> <i>from (months/year)</i> <i>to (months/year)</i>	January 1976 – May 1994
<i>Location</i>	Leersum (The Netherlands)
<i>Company</i>	Research Institute for Nature Management (RIN) / DLO-Institute for Forest and Nature Research (IBN-DLO) (Presently Alterra)
<i>Position</i>	Aquatic Ecologist
<i>Description</i>	In the period at RIN / IBN-DLO Herman van Dam acquired a widely known expertise on the ecology of diatoms and developed a system for ecological water quality assessment with diatoms, which was rewarded with the Dresscher Prize of the Netherlands Society of Aquatic Ecology. He was active in paleolimnology and monitoring of the ecological effects of atmospheric deposition on small lakes and wrote his PhD-thesis on this subject. He published regularly in international scientific journals. He was secretary of the Netherlands Working Group of Ecological Water Assessment and president of the Netherlands-Flemish Diatom Society and the 12th International Diatoms Society.

<i>Date :</i> <i>from (months/year)</i> <i>to (months/year)</i>	October 1973 – August 1975
<i>Location</i>	The Hague / Leersum
<i>Company</i>	National Institute for Drinking Water Research (presently RIVM)
<i>Position</i>	Ecologist
<i>Description</i>	Herman van Dam was a member of a team, which prepared an Environmental Impact Assessment of an artificial recharge project in the main aquifer (Veluwe area) of the central Netherlands. He reported about the effects of expected changes in water level oscillations and water quality on terrestrial vegetation and biocommunities in small streams

15. Others:

<i>Training participation:</i>	Various computer courses, social skills in acquisition etc.
<i>Awards:</i>	Th.G.N. Dresscher Award of the Netherlands Society for Aquatic Ecology

16. Selected reports and publications (from 290 items)

- H. van Dam, J. Padisák & C. Kovács 2005. Ecosurv BQE report phytobenthos. Under the authority of the Ministry of Environment and Water, Hungary. EuropeAid 114951 /D/SV/2002-000-180-04-01-02-02. BioAquaPro, Debrecen/ MottMac Donald, Croydon / DHI, Copenhagen / Arcadis, Arnhem / Grontmij | AquaSense, Amsterdam, 54p.
- Expertteam Reference Conditions and Standards Implementation Water Framework Directive in The Netherlands (2004). Macrophytes and phytoplankton. STOWA, Utrecht / RIZA, Lelystad. See www.stowa.nl.
- AquaSense 2002. Naar criteria voor identificatie van sterk veranderde stromende wateren voor implementatie van de Europese Kaderrichtlijn Water (HMW Beken - KRW). In opdracht van: RIZA. Rapport 02.1793. Amsterdam. 25p.
- H. van Dam, W. Gotjé, R. Franken & T. Ietswaart 2002. STOWA-systeem voor de ecologische beoordeling van brakke, binnendijkse wateren. H2O 35(6): 22-25.
- Dommering, A., A. Otte, E. Peeters & H. van Dam 2001. Nieuw ecologisch beoordelingssysteem voor stadswateren. H2O 34(19): 13-16.
- Stoddard, J.L., D.S. Jeffries, A. Lükewille, T.A. Clair, P.J. Dillon, C.T. Driscoll, M. Forsius, M. Johannessen, J.S. Kahl, J.H. Kellogg, A. Kemp, J. Mannio, D. Monteith, P.S. Murdoch, S. Patrick, A. Rebsdorf, B.L. Skjelkvåle, M.P. Stainton, T. Traaen, H. van Dam, K.E. Webster, J. Wieting & A. Wilander 1999. Regional trends in aquatic recovery from acidification in North America and Europe. Nature 401: 575-578.
- Rott, E., E. Pipp, P. Pfister, H. van Dam, K. Ortler, N. Binder & K. Pall 1999. Indikationslisten für Aufwuchsalgen in Österreichischen Fliessgewässern Teil 2: Trophieindikation. Bundesministeriums für Land- und Forstwirtschaft. Wien. 248p.

- Kelly, M.G., A. Cazaubon, E. Coring, A. Dell'Uomo, L. Ector, B. Goldsmith, H. Guasch, J. Hürlimann, A. Jarlman, B. Kawecka, J. Kwandrans, R. Laugaste, E.-A. Lindstrøm, M. Leitao, P. Marvan, J. Padisák, E. Pipp, J. Prygiel, E. Rott, S. Sabater, H. van Dam & J. Vizinet 1998. Recommendations for the routine sampling of diatoms for water quality assessments in Europe. *J. Appl. Phycol.* 10: 215-224.
- IKSR 1997. Plankton im Rhein 1995 - Plankton dans le Rhin. Internationale Kommission zum Schutze des Rheins. Commission Internationale pour la Protection du Rhin. Koblenz. 32 p.
- H. van Dam 1996. Partial recovery of moorland pools from acidification: indications by chemistry and diatoms. *Neth. J. Aquat. Ecol.* 30: 203-218.
- G. van Dijk & H. van Dam 1996. Monitoring of algae in running waters in The Netherlands. In: B.A. Whitton & E. Rott (Eds) Use of algae for monitoring rivers II. Proc. Int. Symp. Innsbruck, 17-19 Sept. 1995. p. 169-170.
- H. van Dam & A. Mertens 1995. Long-term changes of diatoms and chemistry in headwater streams polluted by atmospheric deposition of sulphur and nitrogen compounds. *Freshwater Biology* 34: 579-600.
- H. van Dam, A. Mertens & J. Sinkeldam 1994. A coded checklist and ecological indicator values of freshwater diatoms from The Netherlands. *Neth. J. Aquat. Ecol.* 28: 117-133.
- H. van Dam & R. Buskens 1993. Ecology and management of moorland pools: balancing acidification and eutrophication. *Hydrobiologia* 265: 225-263.
- H. van Dam & B. Beltman 1992. Effects of climatic change on chemistry and vegetation of peatlands, with special reference to interaction with atmospheric deposition. *Wetlands Ecol. Management* 2: 63-68.
- H. van Dam, B. van Geel, A. van der Wijk, J.F.M. Geelen, R. van der Heijden & M.D. Dickman 1988. Palaeolimnological and documented evidence for alkalization and acidification of two moorland pools (The Netherlands). *Rev. Palaeobot. Palynol.* 55: 273-316.
- C.J.F. ter Braak & H. van Dam 1989. Inferring pH from diatoms: a comparison of old and new calibration methods. *Hydrobiologia* 178: 209-223.
- H. van Dam & H. van Dobben 1982. Effects of acid atmospheric deposition on ecosystems in The Netherlands. p. 547-554 in: T. Schneider en L. Grant (eds.). Air pollution by nitrogen oxides. Elsevier, Amsterdam.
- H. van Dam, G. Suurmond & C.J.F. ter Braak 1981. Impact of acidification on diatoms and chemistry of Dutch moorland pools. *Hydrobiologia* 83: 425-459.
- H. van Dam 1979. Diatoms and water quality in lowland streams in the province of Northern Brabant (The Netherlands). *Hydrobiological Bulletin* 13: 13-21.
- H. van Dam 1976. Biologische waterbeoordeling. *Waterschapsbelangen* 61: 7-14.
- H. van Dam & M. Zwijnenburg-de Rijke 1975. Ecologische aspecten van de Veluwe-infiltratie. *H₂O* 8: 309-315.

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