

Curriculum Vitae

R. Torenbeek

- 1. Family name:** Torenbeek
2. First names: Reinder
3. Date of birth: 8 November 1960
4. Nationality: Dutch
5. Civil status: Single

6. Education:

Institution [Date from – Date to]	Degree(s) or Diploma(s) obtained:
1979 - 1985, Wageningen University, The Netherlands	MSc: Water Quality & Aquatic Ecology
1992, Organisation for Fishery Improvement, Amersfoort, the Netherlands	Certificate, course on Fish stock management and Integral water management
2016, STOAS Vilentum, Wageningen, the Netherlands	Basic Didactic Qualification

7. Language skills: (5 - excellent; 1 – basic)

Language	Reading	Speaking	Writing
English	5	5	5
German	3	3	2
French	2	2	2
Dutch	mother tongue		

8. Membership of professional bodies:

- Chairman, Working Group Ecological Water Management (WEW). www.wew.nu
- Member Royal Dutch Water Net (KNW). www.waternetwerk.nl

9. Other skills:

Multivariate analyses (CANOCO, TWINSpan).
Scuba diving (PADI): Open Water & Advanced Open Water

10. Present position:

Consultant Water Quality and Aquatic Ecology (Freelancer).

11. Years within the firm:

14 Years

12. Key qualifications:

Mr. Torenbeek holds a University Degree in Water Quality & Aquatic Ecology and has been engaged in water management for more than 30 years. He worked for 14 years with Water boards in the Netherlands as aquatic ecologist, where he gained in-depth knowledge of fresh water ecosystems, both for water courses and for lakes. Topics were monitoring, water quality assessment, lake and river rehabilitation, water pollution control, water management, trend analyses, etc.

From 2002 till 2007 he has been working with ARCADIS as specialist in water quality and aquatic ecology. In 2008 he started as a freelancer. As a consultant Mr. Torenbeek worked for many projects, mainly in the Netherlands but also abroad, especially in new EU Member or accession States. Many projects focussed on the Technical Assistance on the Implementation of the Water Framework Directive, like setting environmental objectives, monitoring, assessment of monitoring results and development of a programme of measures for improving water quality.

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13. International experience:

Country	Date
Albania (Hydrobiological Monitoring)	2021 (70 days)
Albania (River Basin Management Plans, WFD)	2015 (10 days)
Turkey (Nitrate Directive)	2012 (20 days)
China (Yellow river basin)	2009/2011 (45 days)
Serbia (Nitrate Directive)	2009/2010 (40 days)
Belarus, Moldova, Ukraine, Armenia, Azerbaijan, Georgia (Water Governance)	2009 (10 days)
Ukraine/Balarus (Pripyat river basin, WFD)	2007 (20 days)
Ukraine/Russia (Seversk Donetsk river basin, WFD)	2007 (20 days)
Bulgaria (Arda river basin, WFD)	2007 (15 days)
Ukraine (Lower Dnistr river basin, WFD)	2006-2007 (150 days)
Hungary (EU Water Framework Directive)	2006 (20 days)
Poland (EU Water Framework Directive)	2004-2005 (80 days)
Macedonia (Algea in irrigation systems)	2002 (10 days)

14. Professional experience:

Date from – to	Location	Company	Position	Description
2008-present	Netherlands	Torenbeek Consultant	Owner	Specialist aquatic ecology. See list of projects below (item 16).
2021	Albania	Torenbeek consultant	Short Term Expert	Specialist Hydrobiological Monitoring.
2017-2018	Netherlands	Bureau Waardenburg	Employee	Project leader Aquatic Ecology
2015-July 2016	Netherlands	CAH Vilentum, School for Higher Vocational Education	Employee	Teacher Biology, Trainer Project Management, Trainer Advisory Skills, Coach, Mentor.
2015	Albania	Mott McDonald	Team leader	Preparation (Inception phase) project on River Basin Management Plans.
2012	Turkey	VAKAKIS	Short Term Expert	Methodology and assessment of trophic status of surface waters for the implementation of the Nitrate Directive
2009/2011	China	DHV	Short Term Expert	Biomonitoring in the Yellow River Basin, based on EU Water Framework Directive principles.
2009/2010	Serbia	Mott McDonald	Water Expert	Monitoring for the EU Nitrate Directive (surface and ground water)
2009/2010	Belarus, Moldova, Ukraine, Armenia, Azerbaijan, Georgia	Mott McDonald	Biological Water Quality Monitoring specialist	Requirements for biological monitoring compliant to the EU Water Framework Directive

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2002 – 2007	Netherlands	ARCADIS	Specialist/ Project Manager	Many projects related to ecological water quality, water management, Water Framework Directive
2007	Ukraine, Belarus	ARCADIS-Euroconsult	Short Term Expert	Pripyat River Basin. Technical assistance on river basin management, based on EU Water Framework Directive principles: <ul style="list-style-type: none"> – Ecological monitoring – Ecological assessment methods
2007	Ukraine, Russia	ARCADIS-Euroconsult	Short Term Expert	Seversk Donetsk River Basin. Technical assistance on river basin management, based on EU Water Framework Directive principles <ul style="list-style-type: none"> – Fieldtraining on biological sampling methods – Ecological assessment methods
2007	Bulgaria	ARCADIS-Euroconsult	Short Term Expert	Technical assistance on the implementation of the Water Framework Directive: <ul style="list-style-type: none"> – Definition of environmental objectives. – Workshops and Toolkit on pressures and measures.
2006-2007	Ukraine	ARCADIS-Euroconsult	Key expert	Lower Dnister River Basin. Technical assistance on RBMP, WFD <ul style="list-style-type: none"> – Ecological monitoring programme – Field training on biological sampling techniques. – Assessment of biological monitoring results
2006	Hungary	ARCADIS-Euroconsult	Short Term Expert	Technical assistance on the implementation of the Water Framework Directive <ul style="list-style-type: none"> – Ecological effects of hydro morphological pressures. – Ecological status assessment methods.
2004 - 2005	Poland	ARCADIS-Euroconsult	Outputleader Monitoring Team	Technical assistance on the implementation of the Water Framework Directive <ul style="list-style-type: none"> – Fieldtraining biological monitoring. – Contribution to the Feasibility study on Monitoring in compliance with the WFD
2002 – 2002	Macedonia	ARCADIS-Euroconsult	Short Term Specialist	– Advice for measures against algae problems in the Tikves and Bregalnica irrigation systems (Ministry of agriculture)
2000 – 2001	Netherlands	Water Board Reest & Wieden, The Netherlands	Aquatic ecologist	<ul style="list-style-type: none"> - Surface water management, - Monitoring - Biological assessment - Ecological measures
1988 – 1999	Netherlands	Waterboard Zuiveringschap Drenthe, The Netherlands	Aquatic ecologist	<ul style="list-style-type: none"> - Surface water management, - Monitoring - Biological assessment - Ecological measures
1985-1987	Netherlands	Research Institute for Nature	Specialist	<ul style="list-style-type: none"> – Monitoring programme and multivariate analysis of macro-invertebrates data. – Specialist hydrobiology and water man-

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		manage- ment, the Netherlands		agement.
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15. Projects since January 1st 2008.

1. Waterboard Hoogheemradschap De Stichtse Rijnlanden, 2021-2022. Advise innovative monitoring techniques.
2. Austrian Development Agency, 2021. River Basin Management plants and Hydrobiological Monitoring in Albania.
3. Waterboard Hunze en Aa's, 2020-2021. Monitoring effects of measures preventing emission of herbicides and pesticides from agriculture areas to surface waters.
4. Waterboard Zuiderzeeland, 2021. Statistic research on ecological effects of nature friendly shores on macrophytes and macro invertebrates.
5. Waterboard Aa en Maas, 2021. Consideration frame for canoe boating. Consortium with Arcadis.
6. Rijkswaterstaat (Dutch National board for Watermanagement), 2020. Analysis of suitability of ecological models. Consortium with Bureau Waardenburg.
7. Waterboard Hunze en Aa's, 2020. Contribution to River Basin Management Plants for the third period of the WFD.
8. Waterboard Drents Overijsselse Delta. Ecological effects of measures and Ecological goals for the third period of the WFD. Consortium with ARCADIS.
9. Waterboard Wetterskip Fryslân, 2019. Ecological effects of measures and Ecological goals for the third period of the WFD. Consortium with Dactylis Ecologisch onderzoek & Educatie, and Marieke Fennema Water.
10. Waterboard Hoogheemraadschap van Rijnland, 2019. Description of ecological goals, stakeholders and measures of small waterbodies, for public participation.
11. Waterboard Zuiderzeeland, 2018-2020. Ecological goals for the third period of the WFD.
12. Waterboard Hollandse Delta, 2018-2019. Ecological Water System Analysis as preparation for the third period of the WFD. Consortium with ARCADIS.
13. Waterboard Noorderzijlvest, 2018. Ecological Water System Analysis as preparation for the third period of the WFD. Consortium with ARCADIS.
14. Waterboard Vechtstromen, 2018. Ecological Water System Analysis as preparation for the third period of the WFD. Consortium with ARCADIS.
15. STOWA (Research Institute of Dutch Waterboards), 2017. Directing the elaboration of Ecological Key Factor "Waterplants removal" for lakes.
16. Waterboard Hunze en Aa's, 2016. Interpretation of water quality analysis results regarding micro-pollutants (pesticides, herbicides and fungicides).
17. Waterboard Drenst-Overijsselse Delta, 2016. WFD-Measures and Environmental Goals for the water body Goot Ganzendiep. Consortium with ARCADIS.
18. Natuurmonumenten, 2016. Environmental goals (Good Ecological Potential) for waterbody Zuiderdiep.
19. Waterboard Hunze en Aa's, 2016. Nutrients in rivers Hunze and Drentse Aa: emission and measures. Consortium with RPS, Delphi and Acacia.
20. Waterboard Hoogheemraadschap van Rijnland, 2015. Analysis of macro-evertebrate communities in WFD-water bodies. Consortium with RPS.
21. EC. Preparation (Inception phase) project on River Basin Management Plans. Consortium with Mott MacDonald
22. Waterboard Groot Salland, 2015. Quick Scan urban waters Deventer, Kampen, Staphorst.
23. Waterboard Vallei & Veluwe, the Netherlands, 2014. Methodology for urban water quality: methodology for definition of environmental goals and measures. Consortium with RPS.

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24. Province of Drenthe, the Netherlands, 2014. Support of the Water Framework in regional watermanagement
25. Waterboard Groot Salland, 2014. Ecological survey of urban waters in the municipalities Olst & Wijhe and Zwartewaterland.
26. Waterboard Hoogheemraadschap Hollands Noorderkwartier, 2014. Setting ecological objectives for the Water Framework Directive. Consortium with Koeman & Bijkerk, Roelf Pot Onderzoek en adviesbureau and Herman van Dam Water en Natuur.
27. Province of Overijssel, the Netherlands, 2014. Support of the Water Framework in regional watermanagement.
28. Waterboard Hunze en Aa's, 2013. The ecological effects of salt water penetration in the canal system Oldambt. Consortium with Koeman & Bijkerk.
29. Waterboard Hoogheemraadschap Delfland, 2013. Support for the Water Framework implementation process.
30. Waterboard Zuiderzeeland, 2013. The ecological effects of two different mowing methods on macrophytes.
31. Waterboard Hoogheemraadschap Rijnland, 2012. Support for the Water Framework implementation process.
32. Waterboard Velt en Vecht, 2012. Trend analysis of ecological water quality.
33. Waterboard Hunze en Aa's, 2012. Advise about the prevention of blue-green algae nuisance in lake Zuidlaardermeer. Consortium with ARCADIS.
34. Waterboard Zuiderzeeland, 2012. Ecological support for the WFD-process.
35. Municipality Lelystad, 2012. Advise about the prevention of blue-green algae nuisance in lake Bovenwater. Consortium with Koeman & Bijkerk B.V.
36. Ministry of Infrastructure and Environment, Water department. Exploration of aquatic soils as hinder for WFD-goals. Consortium with RPS.
37. Waterboard Zuiderzeeland, 2011. Statistical analysis of the effectiveness of WFD-measures: natural banks and mowing methods.
38. Waterboard Hollandse Delta. Statistical analysis of macro-invertebrate samples, 2011. Consortium with ARCADIS.
39. Waterboard Hoogheemraadschap Hollands Noorderkwartier, 2011. Biological and chemical monitoring results, urban surface waters municipality Den Helder. Consortium with ARCADIS.
40. Waterboard Groot Salland, 2011. Quick scan urban surface waters, Zwolle-south.
41. Waterboard Zuiderzeeland, 2011. Quick scan urban surface waters, Tollebeek.
42. Waterboard Hunze en Aa's, 2011. Ecoscans Assen. Consortium with Koeman & Bijkerk b.v.
43. Waterschap Hunze en Aa's, 2011. Annual report surface water quality 2010.
44. Waterboard Noorderzijlvest, 2010. Assessment of ecological monitoring results.
45. Waterboard Hunze & Aa's, 2010. Water quality studies.
46. Waterboard Groot Salland, 2010. Quick Scan of urban surface waters in the municipality of Dalfsen.
47. Provincie of Overijssel, 2010. Interim aquatic ecological staff member.
48. Zoo Emmen, 2010. Water quality study.
49. Waterboard Hunze en Aa's, 2010. Annual report 2009 on water quality and ecology with trends from 2000-2009 and extrapolation to 2015.
50. Province Drenthe, 2009. Climate change and water quality.
51. Oldenkamp Adviesgroep, 2009. WFD innovation tenders assessment.
52. Mott MacDonald, 2009. Monitoring for the EU Nitrate Directive in Serbia.
53. Mott MacDonald, 2009. Water Governance in Belarus, Moldova, Ukraine, Armenia, Azerbaijan, Georgia.
54. ARCADIS, 2009. Buffer strips in the Netherlands: practice, experience and research.
55. DHV, 2009. Biological monitoring of the Yellow River, China.
56. Waterboard Groot Salland, the Netherlands, 2009. Quick Scan of urban surface waters in the mu-

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- municipalities Zwolle and Dalfsen.
57. Waterboard Hunze & Aa's, the Netherlands, 2009. Annual report 2008 on water quality and ecology with trends from 2000-2008 and extrapolation to 2015.
 58. Waterboard Hunze & Aa's, the Netherlands, 2009. Test on the stand still principle in water quality.
 59. Waterboard Hunze & Aa's, the Netherlands, 2008. The effect of purified urban waste water discharges on the surface water quality. Model study.
 60. Waterboard Hunze & Aa's, the Netherlands, 2008. Causes and control of blue-green algae blooming in water recreation area Borgerswold, Veendam (the Netherlands). Partner: Koeman & Bijkerk, Ecological consulting.
 61. Staatsbosbeheer and Natuurmonumenten, the Netherlands, 2009. Screening of water management plans of provinces and waterboards on goals and measures for 51 protected nature areas in the Netherlands. Partners: buro Natuur + Water, Allards Wateradvies.
 62. Waterboard Zuiderzeeland, 2008. Water quality study Oostvaarderswold.
 63. Province of Drenthe, the Netherlands, 2008. Quality and trends of aquatic nature based on macro-invertebrates in the province of Drenthe. Partner: Wanningen Waterconsult.
 64. Province of Overijssel, the Netherlands, 2008. Implementation of the Water Framework Directive in the Water plan of Provincie Overijssel.
 65. Waterboard Hunze & Aa's, the Netherlands, 2008. The effect of purified urban waste water discharges on the surface water quality. Interpretation of monitoring results.
 66. Waterboard Reest & Wieden, 2008. Assistance ecological water quality studies.
 67. EVD, 2008. Presentation during a study tour of specialists from Morocco.
 68. Waterboard Zuiderzeeland, the Netherlands, 2008. Ecological analysis of wetland Harderbroek.
 69. Waterboard Zuiderzeeland, the Netherlands, 2008. Definition of ecological goals for the Water Framework Directive.
 70. Waterboard Hunze & Aa's, the Netherlands, 2008. Annual report 2007 on water quality and ecology.
 71. ARCADIS, 2008. Ecological assessment for the WFD-River Basin Management Plan Maas (the Netherlands).
 72. ARCADIS, 2008. Urban surface waters: goals, pressures and measures. Municipality Rheden (the Netherlands).
 73. ARCADIS, 2008. Monitoring results Lake Bovenwater.
 74. Waterboard Reest & Wieden, the Netherlands, 2008. Analysis of phosphorus loads on water quality in wetland Wieden & Weerribben.
 75. STOWA, the Netherlands, 2008. Co-writer of a chapter in the Manual on hydrobiological sampling. Partner: Aqua Integra.

Date: 14 March, 2022

Place: Hoenderloo, the Netherlands