



CURRICULUM VITAE

Name	G.A.P.H. van den Eertwegh, PhD
Date of birth	April 1, 1966
Nationality	Dutch (NL)
Knowledge	Hydrology, water management, (sub)irrigation and (controlled) drainage, evapotranspiration, drainage water quality and surface water quality
Disciplines	Consultant, researcher, team leader, and project manager
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Key Qualifications

Gé van den Eertwegh is senior hydrologist with over 20 years of working experience. His expertise is on integrated water management, vadose zone hydrology and transport, and drainage water quality (PhD thesis). He is a specialist in water and solute balances modelling, aiming at supporting strategic and operational decision making in water management. Additionally, his professional profile includes team leader and project manager capacities. He combines people management with content and business aspects. He has built up his expertise in the Netherlands, including his PhD work, at Wageningen University and the Ministry of Public Works/Rijkswaterstaat, at the National Institute of Public Health and Environment, at water boards of Rijnland and Rivierenland, at KWR Watercycle Research Institute, and FutureWater. He has worked abroad on a project basis in e.g. China, Malaysia, USA, India, Pakistan, Romania, and Vietnam, and was actively involved in the ICID International Commission on Irrigation and Drainage, as Secretary of the Working Group on Environment. He undertook several field mission to e.g. Vietnam (2016, 2018) and Egypt (2019). In the Netherlands, he acted as chairman of several nation-wide professional working groups, like the STOWA advisory board and TNO Geo-modelling. He is Member of Honour of the Dutch Hydrological Society (2021). In Autumn 2013, he started the research and consulting company KnowH2O (www.knowh2o.nl/en/).

Partner in Program Lumbricus (<https://www.programmalumbricus.nl/> 2017-2020) and TKI project KLIMAP (<https://www.klimap.nl/> 2020-2023).

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Educational background

- 2002 PhD at Wageningen Agricultural University, The Netherlands.
Thesis: Water and Nutrient balances - travel times of drainage water and nutrient loads to surface water. Drainage water quality (salt and nutrients). Field test sites, monitoring, computer modelling.
- 1990 MSc at Wageningen Agricultural University, The Netherlands.
Subjects: groundwater- and surface water hydrology, rainfall runoff modelling, drainage and surface water quality.
- 1984 Gymnasium β at Marianum College, Venlo, The Netherlands.

Courses on team management and project management.

Professional Experience

- At present Owner at KnowH₂O | Consulting, Innovation and Connection in Water, The Netherlands.
- 2012 - 2013 FutureWater, The Netherlands.
Manager/senior hydrologist.
FutureWater is a research company concerned with the future of our water resources. FutureWater applies and, if required, develops scientific methodologies, concepts and tools to assure sustainable water resources solutions for the future. Activities can be summarized as water for food and water for nature under changing environments, including climate change. Simulation models, GIS and remote sensing are the tools used to assist in these activities. Projects take place in the developed as well as the developing world. Emphasis on a pro-active approach with strategic thinking and tools.
- 2010 – 2012 KWR Watercycle Research Institute, The Netherlands.
Team leader Ecology and Project Manager.
Water cycle research based on water system management, with respect to sustainability and the natural environment. Ecohydrological studies of field sites, development of expert systems based on location characteristics, and process based modelling of ecohydrology under a changing climate.
- 2005 – 2010 Water authority Rivierenland, The Netherlands.
Team leader.
Ground and surface water hydrology, surface water chemistry and aquatic ecology.
Simulation models and site studies. Water systems analysis. Database management.
- 1997 – 2005 Water authority Rijnland, The Netherlands.
Project manager and team leader.
Surface water hydrology, surface water chemistry and aquatic ecology. Simulation models and integrated site studies. Water systems analysis. Integrated projects with provinces and local communities. Project manager of two regional scale research projects in the Dutch polder area on agriculture, water management and water chemistry: peat soils and reclaimed lake.

- 1992 – 1997 Wageningen Agricultural University, Dept. Water Resources, The Netherlands.
 National Institute for Public Health and the Environment, The Netherlands.
 PhD-student (PhD in 2002).
 Subject: Water and Nutrient balances - travel times of drainage water and nutrient loads to surface water.
- 1990 – 1992 Wageningen Agricultural University, Dept. Water Resources, The Netherlands.
 Associate researcher.
 Short-term water level and discharge forecasts for the Rhine River. Development and update of statistical prediction model.

Overseas Professional Experience

Non-resident assignments:

China, Malaysia, USA, Pakistan, India, Vietnam, Romania, South Korea, Egypt.

Projects:

- Modernization of irrigation systems in northern Nile basin Egypt. World Bank (2011-2012).
- Green Water Management and Credits in China: case study Wuhan, Yangtze River basin (2012-2013). Partners for Water project. Hydrological and erosion modelling using remote sensing information and field data of a 9,000 km² basin. Cost-benefit analysis of measures to reduce erosion and to increase water supply.
- Towards a Mekong Delta Portal, Vietnam (2012-2013). Partners for Water project. Drought monitoring and water demand-supply modelling using remote sensing information and ground-based data.
- OPI Romania (2013-2015). Development and design of an online irrigation strategy, based on integrated field data, remote sensing information, and farm-scale modelling results.
- Urban Planning System and Green Water Management and Credits (GWMC) concept in Haidong City, China (2014). Bringing the GWMC concept into the urban area.
- TKI Dotter project - remote sensing and aquatic vegetation (2016). Development and testing of mapping aquatic vegetation by hyperspectral sensoring, using UAV and South Korean test site (KICT REC) for calibration and validation purposes.
- Small Island Developing States and Climate Change (2016). ToR for implementation of an information portal on climate change, mitigation, and adaptation activities.
- Vietnam - Agriculture, Water and Soil Management (2016). Climate-smart solutions. Invited by and in cooperation with Vietnam Farmers' Union VNFU (ICD). Grass root level and bottom-up approach for farmers, water and soil sampling, workshops for provinces and farmers (VNFU and provincial FU). Two missions to Mekong Delta, Central Highlands, Central Coast.
- Mekong Delta Plan: knowledge dissemination and capacity building project (2017-2018).
- Drainage and irrigation in Egypt: mission and field visits in modernisation towards controlled drainage, agricultural drainage water reuse, and (sub)irrigation.

Consulting Experiences

Only consultancies started, on-going or completed after 2003 are included.

- 2003-2005 Rijnland water authority: hydrology; water quality; water management
- 2005-2010 Rivierenland water authority: hydrology; water quality; water management
 International Commission on Irrigation and Drainage (ICID), Secretary of Working Group on Environment
 EU-WFD, chairman monitoring Rhine-West region

2011-2012	KWR Watercycle Research Institute
2012-2013	FutureWater
	Climate Adaptive Drainage system - Development, design, and field tests Groundwater for Crops - Optimal use of soil and groundwater for crop production Groundwater recharge at Veluwe natural area DAISY – Development of mobile radar systems and rainfall runoff modelling Egypt – Modernization of irrigation systems and management Vietnam – Towards a Mekong Delta portal China – Green Water Management and Credits toolkit Romania – Online field irrigation system (Partners-for-Water, OPI Romania project)
2013 to present	KnowH ₂ O Water System Analysis for water, nitrogen, and phosphorus; mass balances and load calculations (EU – WFD). Urban Planning Haidong City, China, and Green Water Management and Credits. TKI Groundwater for Crops: field test of automated drainage and irrigation system. DAISY – Development of mobile radar systems and rainfall runoff modelling. SWIMM – Soil Water evaluation based on Integrated Measurements and Modelling: online instrument to evaluate nature policy by Province of North-Brabant. Physical plausibility of actual evapotranspiration data based on remote sensing. Water level management related to water quality aspects. Climate Adaptive Drainage and sub-irrigation: re-use of freshwater sources. Using treated fresh water from domestic waste water treatment plant: aspects of water quality in soil and groundwater. SAWAX – smart weir for water management: design and field test. Domestic waste water treatment and water quality: policy analysis and project plan. Vietnam – ToR Remote Sensing and Water Management of Red River. Poland – Mission on irrigation, drainage, and agriculture. Vietnam – Water, Soil, Crop, and Agriculture in Mekong Delta, Central Coast, and Central Highland areas. Vietnam - Mekong Delta Plan knowledge dissemination and capacity building. Sub-irrigation using groundwater: efficient and effective water use during meteorological drought. Small Island Developing States and Climate Change: ToR for implementation of an information portal on climate change, mitigation, and adaptation activities. TKI Dotter project: remote sensing of aquatic vegetation, and combined hydraulic and ecological targets. SPECTORS Interreg V-A: Dutch-German high-tech initiative to exploit the market potential of civil drones technology through sensor innovations for remote sensing and remote monitoring. Boundary waters and nutrients exchange between Water Boards Limburg and Aa en Maas: an analysis. Project leader. Evaporation and remote sensing: SBIR feasibility study NSO – SATWATER. Experimental polder nutrient cycling in agriculture: water quality, soil subsidence and sustainable dairy farming in peat polders in the Netherlands. Project leader.

Working Groups

Wageningen Academy	Teacher course Water balances (2003-2004)
NHV	Board member of Dutch Hydrological Society (2009-2020)
	Member of Honour (2021)
ICID	Chairman of Working Group on Evapotranspiration (2010-2020)
STOWA	Secretary of Working Group on Environment (2005-2010)
TNO	Water system analysis, chairman of advisory panel of water boards (2005-2010)
Bekenstichting Veluwe	Chairman of User Committee on Subsurface Soil Modelling (2008-2012)
	Member of Working Group Hydrology

Languages	<i>Speak</i>	<i>Read</i>	<i>Write</i>
Dutch	<i>mother language</i>		
English	<i>excellent</i>	<i>excellent</i>	<i>excellent</i>
German	<i>good</i>	<i>good</i>	<i>good</i>

Publications

In Dutch

Eertwagh, G.A.P.H. van den (1992):

Voorspellingen waterstand en afvoer Rijn. Ministry of Public Works and Water Management, RIZA, Leystad, the Netherlands. RIZA Report No. 92.006.

Eertwagh, G.A.P.H. van den and A.L. Mugie (1994):

Korte termijn voorspellingen waterstand en afvoer Bovenrijn te Lobith. H₂O (27) 1994, No. 5.

Meinardi, C.R. and G.A.P.H. van den Eertwagh (1995):

Onderzoek aan drainwater in de kleigebieden van Nederland. Deel I: Resultaten van het veldonderzoek. RIVM Rapport No. 714901007.

Brongers, I. and K.P. Groen and G.A.P.H. van den Eertwagh and C.R. Meinardi (1996):

Emissie van bestrijdingsmiddelen en nutriënten naar het oppervlaktewater via drainage. Ministry of Transport, Public Works and Water Management, Flevobericht No. 384.

Meinardi, C.R. and G.A.P.H. van den Eertwagh (1997):

Onderzoek aan drainwater in de kleigebieden van Nederland. Deel II: Gegevens van het oriënterend onderzoek. RIVM Rapport No. 714801013.

Meinardi, C.R., G.A.P.H. van den Eertwagh, and C.G.J. Schotten (1998):

Grondwateraanvulling en oppervlakkige afstroming in Nederland. Deel 2: De ontwatering van kleigronden. In: Stromingen 4 pp. 5-19 (1998).

Eertwagh, G.A.P.H. van den and C.R. Meinardi (1999):

Water- en nutriëntenhuishouding van het stroomgebied van de Hupselse Beek. RIVM, National Institute of Public Health and the Environment, rapport no. 714901005. Wageningen Agricultural University, Dept. of Water Resources. Rapport 74.

Eertwagh, G.A.P.H. van den, J.R. Hoekstra, and C.R. Meinardi (1999):

Praktijkproef Nutriëntenbalans: Nutriëntenbelasting oppervlaktewater via drainage van akkerbouwpercelen op zavel. Wageningen Agricultural University, Dept. of Water Resources. Rapport 75.

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Eertwagh, G.A.P.H. van den, J.G. Kroes, A. Smit en F.H. van Schaik (2003):
Peilbeheer met FIW MultiSWAP. H₂O 20 (2003), pp. 28-31.

Eertwagh, G.A.P.H. van den, en C.L. van Beek (2004):
Veen, water en vee. Water- en nutriëntenhuishouding van een veenweidepolder. Eindrapport van het Veenweideproject fase I, uitgevoerd in de Vlietpolder. Hoogheemraadschap van Rijnland. STOWA-Rapport 2004-30, ISBN 90.5773.270.x.

Hardeveld, H.A. van, G.A.P.H. van den Eertwagh en C.L. van Beek (2006):
Verbetering waterkwaliteit in veenweidepolders haalbaar. H₂O No. 12 (2006).

Vries, P. de, G.A.P.H. van den Eertwagh en L. Nooteboom (2006):
Modern waterbeheer is transparant en doelgericht: Hoogheemraadschap van Rijnland van taakgericht naar doelgericht. H₂O No. 8 (2006).

Eertwagh, G.A.P.H. van den en M.I. Mul (2007):
Evaluatie Meststoffenwet voor een betere kwaliteit van het oppervlaktewater? Twee opinie-artikelen in H₂O (2007).

Eertwagh, Gé van den, Joost Heijkers, Durk Klopstra en Michelle Talsma (2009):
Onzekere hydrologische modelresultaten: bedreigend of gewenste informatie? H₂O / 3-2009.

Schuurmans, H., H. Niewold, G. van den Eertwagh en P. Droogers (2010):
NBW-actueel: ontwikkeling methode voor wateropgaven met een bandbreedte. H₂O Tijdschrift voor watervoorziening en waterbeheer 2010-1: 25-29.

Terink, W., P. Droogers, W.W. Immerzeel, G.A.P.H. van den Eertwagh (2012):
SPHY – Een hydrologisch model gericht op de berekening van bodemvocht en de actuele verdamping. FutureWater rapport 115.

Terink, W., G.A.P.H. van den Eertwagh, P. Droogers (2012):
Model voor landsdekkende berekening bodemvocht in wortelzone en actuele verdamping. H₂O/23-2012: 16-18.

Eertwagh, G.A.P.H. van den, L.Kuipers, W. Klerk, J. van Bakel, L. Stuyt, A. van Iersel, M.Talsma (2012):
Klimaatadaptieve drainage: middel tegen piekafvoeren en watertekorten. H₂O/18-2012: 8-10.

Terink, Wilco, Jan van Bakel, Eertwagh, Gé van den, en Peter Droogers (2013):
KlimaatAdaptieve Drainage: Modelberekeningen met SWAP ter bepaling van effecten KAD op reductie van piekafvoeren en op waterconservering. FutureWater rapport nr. 117.

Bakel, Jan van, Gé van den Eertwagh, Harry Massop en Jaïrus Brandsma (2013):
KlimaatAdaptieve Drainage: Landelijke geschiktheid van conventionele, samengestelde peilstuurde en klimaatadaptieve drainage. FutureWater rapport nr. 118.

Eertwagh, Gé van den, m.m.v. Ada Karimlou-Kranendonk (2013):
KlimaatAdaptieve Drainage: Juridisch-bestuurlijke aspecten. FutureWater rapport nr. 119.

Eertwagh, Gé van den, en Peter Droogers (2013):
KlimaatAdaptieve Drainage: Analyse van kosten en baten voor waterbeheerder en agrariër. FutureWater rapport nr. 120.

Eertwagh, Gé van den, Leo Kuipers, Wim Klerk, Jan van Bakel, Lodewijk Stuyt, Ad van Iersel en Michelle Talsma (2013):

Klimaat-Adaptieve Drainage: een innovatieve methode om piekafvoeren en watertekorten te verminderen. Eindrapportage Fase 2 'Onderzoek en Ontwikkeling'. Referentienummer SBIR113008. FutureWater rapport nr. 121.

Eertwagh, G.A.P.H. van den, P.J.T. van Bakel, L. Stuyt, A. van Iersel, L. Kuipers, M. Talsma, P. Droogers (2013):

Klimaat-Adaptieve Drainage: een innovatieve methode om piekafvoeren en watertekorten te verminderen. Opgesteld door FutureWater, Kuipers Electronic Engineering, De Bakelse Stroom, Van Iersel, Wageningen UR/Alterra en STOWA. Samenvatting resultaten Fase 2 'Onderzoek en Ontwikkeling' SBIR-KAD. FutureWater rapport 123.

Eertwagh, G.A.P.H. van den, P.J.T. van Bakel, L. Stuyt, A. van Iersel, L. Kuipers, W. Klerk, M. Talsma (2013):

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Krikken, A., R. Hulsman, I. Folmer en G.A.P.H. van den Eertwagh (2014).

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Floris Verhagen, Teun Spek, Flip Witte, Bernard Voortman, Eddy Moors, Erik Querner, Gé van den Eertwagh en Jan van Bakel (2014).

Expertdialoog de Veluwe. Begrijpen we het watersysteem? Stromingen 20 (2014) nr. 3, pp 5-19.

Eertwagh, G.A.P.H. van den (2015):

Peilbeheer en chemische waterkwaliteit: beheergebied Aa en Maas. Rapport KnowH₂O (2015).

Terink, W., P. Droogers en G.A.P.H. van den Eertwagh (2015):

De toegevoegde waarde van hoge-resolutie neerslagradar voor het waterbeheer. Case-study binnen het "Daring Applications & Innovations in Sensor Systems" (DAISY) project. Report FutureWater 135, 2015.

NHV-Werkgroep Verdamping (2015):

Verdamping in de hydrologie. NHV-Special 8, 2015. ISBN 978-90-803565-0-4.

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Bartholomeus, R.P., S.F. Stofberg, G.A.P.H. van den Eertwagh, G. Cirkel (2017).

Hergebruik restwater voor zoetwatervoorziening in het landelijk gebied – Monitoring subirrigatie met RWZI effluent Haaksbergen 2016. BTO rapport 2017.062. Programma Lumbricus.

Eertwagh, G.A.P.H. van (2018).

Sensor-gestuurd boeren. Inventarisatie van online sensoren ter meting van de chemische samenstelling van oppervlaktewater. KnowH₂O.

Bartholomeus, R.P., M. van Huijgevoort, D. van Deijl, G.A.P.H. van den Eertwagh (2019).

Efficiëntie van beregeling en subirrigatie uit grondwater. Modelmatige analyse met SWAP en Hydrus-2D. KWR rapport 2019.059. Programma Lumbricus. BTO in het kader van WiCE – Water in de Circulaire Economie.

Bakel, J. van, G. van den Eertwagh, D. van Deijl en J. Mensink (2020).
SAWAX – slimme stuwing voor optimaal waterbeheer. Programma Lumbricus.

Stofberg, S.F., Ruud P. Bartholomeus, Gé A.P.H. van den Eertwagh, Klaasjan Raat (2021).

Hergebruik van gezuiverd restwater in de landbouw - Subirrigatie met RWZI effluent Haaksbergen 2015-2019. KWR rapport 2021.026. Programma Lumbricus. BTO in het kader van WiCE – Water in de Circulaire Economie.

Wit, J. de, M. van Huijgevoort, D. van Deijl, G.A.P.H. van den Eertwagh, R.P. Bartholomeus (2021).

Regelbare drainage met subirrigatie en slimme stuwen. Veldproeven en modelanalyses in het zandgebied van Nederland voor een meer robuuste waterhuishouding op lokale en regionale schaal. KWR rapport 2021.028. Programma Lumbricus. BTO in het kader van WiCE – Water in de Circulaire Economie.

International – English and German

- Luft, G., G.A.P.H. van den Eertwagh, and H.-J. Vieser (1990):
Veränderung der Bodensee-Wasserstände von 1887 bis 1987 (in Duits). LfU Baden-Württemberg, Karlsruhe. Handbuch Hydrologie Baden-Württemberg, Teil 6, 6.2 Berichte, 1990.
- Luft, G. and G.A.P.H. van den Eertwagh (1990):
Long-term changes in water level of Lake Constance and possible causes. Annex to Proceedings and Information No. 44, pp. 21-40 (1990). CHO TNO Committee on Hydrological Research, the Netherlands.
- Luft, G. and G.A.P.H. van den Eertwagh (1991):
Long-term changes in the water level of Lake Constance and possible causes. IAHS Symposium Hydrology of Natural and Man-made Lakes, Vienna, 1991. IAHS Publication No. 206, 1991.
- Eertwagh, G.A.P.H. van den and P.M.M. Warmerdam (1993):
Storm runoff and nutrient transport from a drained plot in the Hupsel catchment. Second International Conference on Friend, Braunschweig, 1993. Editor: A. Herrmann, TU Braunschweig, Germany.
- Eertwagh, G.A.P.H. van den (1994):
Transport of nutrients to small surface waters through drainage. IAHR Symposium Transport and Reactive Processes in Aquifers, Switzerland, 1994. Proceedings, pp. 255-261.
- Nieber, J.L., G.A.P.H. van den Eertwagh, and R.A. Feddes (1998):
Modeling multidimensional water flow and solute transport in dual-porosity soils. ASAE 7th Drainage Symposium Proceedings 'Drainage in the 21st Century: Food Production and the Environment', Florida, 1998.
- Louw, P.G.B. de, G.A.P.H. van den Eertwagh, and J. Griffioen (2000):
High nutrient and chloride loads to surface waters in polder areas due to groundwater seepage. Proceedings of the 30th AH Congress on Groundwater: Past achievements and future challenges. Cape Town, South Africa, 2000. A.A. Balkema Publishers, Rotterdam-Brookfield.
- Eertwagh, G.A.P.H. van den, J.L. Nieber, and R.A. Feddes (2001):
Multidimensional flow and transport in a drained, dual-porosity soil. ASAE 2nd International Symposium and Exhibition on Preferential Flow, Hawaï, 2001.
- Louw, P.G.B. de, J. Griffioen, G.A.P.H. van den Eertwagh, and B. Calf (2002):
High nutrient and chloride loads in polder areas due to groundwater exfiltration. 2nd International Conference on New Trends in Water and Environmental Engineering for Safety and Life: Eco-compatible Solutions for Aquatic Environments, Capri, Italy, June 24-28, 2002.
- Eertwagh, G.A.P.H. van den (2002):
Water and nutrient budgets at field and regional scale. Travel times of drainage water and nutrient loads to surface water. Proefschrift, Wageningen Universiteit.
- Beek, C.L. van, G.A.P.H. van den Eertwagh, F.H. van Schaik, and A. van den Toorn (2003):
Surface runoff from intensively managed grassland on peat soils; a diffuse source of nitrogen and phosphorus in surface waters. Congress paper 'Diffuse input of chemicals into soils & groundwater: Assessment & Management'. February 26-28, 2003, Dresden, Germany.
- Beek, C.L. van, G.A.P.H. van den Eertwagh, F.H. van Schaik, G.L. Velthof, and O. Oenema O. (2004):

The contribution of dairy farming on peat soil on N and P loading of surface water. Nutrient Cycling in Agroecosystems 70: pp. 85-95.

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Eertwagh, G.A.P.H. van den, J.L. Nieber, P.G.B. de Louw, H.A. van Hardeveld, and R. Bakkum (2005):

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Eertwagh, G.A.P.H. van den, J.L. Nieber, P.G.B. de Louw, H.A. van Hardeveld, and R. Bakkum (2006):

Impacts of drainage activities for clay soils on hydrology and solute loads to surface water. Irrigation and Drainage 55, 235-245 (2006).

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O. Oenema (2007):

Leaching of solutes from an intensively managed peat soil to surface water. Water, Air, and Soil Pollution (2007) 182: 291-301.

Simons, G., W. Terink, H. Badawy, G.A.P.H. van den Eertwagh, W.G.M. Bastiaanssen (2012):

Egypt: Assessing the Effects of Farm-Level Irrigation Modernization on Water Availability and Crop Yields. Final Report (Summer 2011 and Winter 2011/2012). World Bank research project.

Brandsma, J., G.A.P.H. van den Eertwagh, P. Droogers, Z. Bai, and S. Zhang (2013):

Green and Blue Water Resources and Management Scenarios using the SWAT model for the Upper Duhe Basin, China - Feasibility Study. Green Water Management & Credits Toolbox China. November 2013. Commissioned by Partners for Water, project PVWS12001. Report FutureWater 126.

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