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Fish Passage Workshop

Workshop of the Segura LIFE project on fish passage best practices in the Netherlands

Date:

23-24 October 2014

Themes of the workshop:

- *Implementing Fish Passage Policies in the Netherlands*
- *Design and construction of fish passage facilities in the Netherlands*
- *Monitoring and evaluation of fishways (Sweden, Netherlands)*
- *Community involvement and social factors*
- *Experience with measures for improving downstream migration in Sweden*
- *Dam removal experiences (USA)*

Workshop leaders:

- Drs. Ing. Herman Wanningen (Wanningen Water Consult);
- MSc. Pao Fernandez (Wanningen Water Consult)

Teachers and guides:

- Ing. Peter Paul Schollema (Regional Water Authority Hunze en Aa's, The Netherlands); aquatic ecotechnologist
- Msc. Ing. Iwan de Vries (Regional Water Authority Vechtstromen, The Netherlands); aquatic ecologist
- Daniel Nyquist PHD (Karlstad University, Sweden); aquatic ecologist
- Ir. Willem Kastelein (Regional Water Authority Hunze en Aa's, The Netherlands); project leader spatial planning



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Program 23 October 2014

- Location: **Regional Water Authority Hunze & Aa's** (www.hunzeenaas.nl)
Aquapark 5, Veendam
- 8:45-9:00 **Coffee, tea and welcome**
Harm Kupers, Director
- 9:00-9:30 **Introduction Regional Water Authority Hunze & Aa's**
Introduction to the region, work package and tasks and how the water authority involves the community in water management projects
Willem Kastelein,
- 9:30-10:00 **Segura River Project.** Introduction to the LIFE+ project and the goals and the measures
Eduardo Lafuente Sacristán, Segura River Authority
- 10:00- 10:30 **Implementing fish passage policies in the regional water management.** The power of using a clear vision. Creating internal and external commitment (landowners, fishery boards, regional governments) for fish migration.
Peter Paul Schollema



Eel passage at the tidal lock of Nieuwe Statenzijl

- 10:30-11:50 **Break**



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- 10:50-11:20 **Removing dams in the USA.** An overview of dam removal projects in the USA, drivers and key learning point.
Pao Fernandez Garrido
- 11:20-12:00 **Fishway design and construction.** The main steps and guidance documents for fishway design in the Netherlands. What is seen as an optimal process for design and construction of fishways? What did we learn from our mistakes?
Iwan de Vries
- 12:00-12:40 **Implementing Fishway guidance into design and construct processes.** Case examples from the Regional Water Authority Hunze & Aa's. Main steps, key learning points, choosing the right solutions.
Peter Paul Schollema
- 12:40-13:40 **Lunch at the Office of Regional Water Authority Hunze & Aa's**

Fieldtrip From sea to source, River Basin Westerwolde

- 14:10 -18:00 **Location; River restoration Ruiten Aa + fishway;** combination habitat restoration and fish migration.

Location; Fish lock at weir Veelerveen ; a fully technical option if there is not much space

Location; Weir De Bult; technical bypass fishway system

Location; Nieuwe Statenzijl Lock; Fish friendly lock operation, Eel ladder and cat flaps, solution at a tidal barrier river/sea

Location: Breebaart; pumped fishway at a tidal barrier combined with a nature reserve

Location: Termunterzijl; Pumping station and fishway at a tidal barrier with viewing window → fully technical

- 18:00 **End day 1**

- 20:00 **Dinner in the city of Groningen**



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Program 24 October 2014

Location: De Koppel
Vechtstraat 8,
7772 AX HARDENBERG
<http://www.dekoppel.com>

8:45-9:00 **Welcome by Jan Hoek**, (board member Vechtstromen)
Welcome to the Regional Water Authority Vechtstromen.
www.vechtstromen.nl

9:00-9:30 **Introduction to the Vecht River**
Introduction to the Vecht River basin and the goals for river restoration (e.g. socio-economics, vision for river valleys, fish passage and river connectivity, involving landowners, funding)
Tjeerd Dijkstra



Fishway (right) in the River Vecht near Junne

9:30-10:00 **Fish passage in the Vecht River Basin.** Fishway facilities, design, construction, maintenance, hydrology and social issues.
Iwan de Vries

10:00-10:45 **Swedish experiences on fish behaviour studies using telemetry techniques**
Daniel Nyquist



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10:45-11:15 **Break**

11:15-11:30 **New insights on the migratory behaviour of coarse fish in the North of the Netherlands based on recent telemetry studies.**

Implications for fish passage policies

Peter Paul Schollema

11:30-12:15 **Creating commitment for fish passage projects**

Interactive discussion on the main possibilities to create more commitment for the fish passage project within the Segura LIFE+ project. Herman Wanningen, Pao Fernandez & Rosa Olivo.

12:00-12:30 **Evaluation and agreements**

Project team

12:30-13:30 **Lunch**

Fieldtrip Vecht River Basin

Remeandering projects, nature like fishways, cascade fishways, fishways and canoeing

13:30 -13.45 **Introduction to the afternoon program:** *the whole afternoon session is arranged by Iwan Brinkhuis and Iwan de Vries)*

14:00 - 15:00 **Vechtpark – Molengoot:** *Situation in front of the Koppel with a weir, a sluice, a fish passage, an extra attraction flow and a wild water canoeing flow.*

15:00 - 15:45 **Vechtpark – Old Radewijkerbeek:** *Situation upstream where we created a water rich situation near the river where there used to be land.*

15:45 - 17:00 **Vecht-June** *Situation where a weir is passed by meander, the flow through the meander is arranged by a weir. The most nature like flow in the whole River Valley*

17:00 **End day 2**