2017 AGUASAN Workshop

Field Trip Programme - June 28th, 2017

Time	Description	Facilitator
12:00	Meet and start loading bus from ABZ	-
12:15	Bus leaves Spiez for Henniez (1hr30; 106 km) Greeting on bus and briefing for the works	Johannes Heeb
13:45	Bus Arrives at Henniez Plant - check in and washroom break on arrival	-
14:00	**Welcome to Nestlé Waters/Henniez Factory** - Coffee - Welcome greeting by Management Team/CEO of Nestlé Waters	CEO of Nestlé Waters at Henniez
14:15	**Tour of Henniez Water Bottling Production Facility.** Short and long tour option (described in section 4. below)	Cédric Egger
14:30	Transfer to Henniez catchment Area for walking tour by bus	-
14:45	**Walking Tour Stop *1****: Natural Filtration at upstream Organisation*	Cédric Egger and Johannes Heeb
15:15	**Walking Tour Stop 2:** *Viewing of biodiversity enhancing and stream protection measures in the catchment area* - Measures to be viewed from crest of hill above natural filtration ponds at headwaters *Organic farming and forestry practices: Activities put into place to ensure water quality long term* - Activities put in place to ensure for water quality over the long	Cédric Egger, Olivier MAYOR and Johannes Heeb
15:50	**Walking Tour Stop 3 (after 15' walking):** *Water source visit*	Cédric Egger and Johannes Heeb
16:15	Pickup by bus at juices Factory and transfer to Biogas plant - Discussion of water treatment plans from the bus	Cédric Egger and Johannes Heeb
16:30	**Stop 4 at and viewing of agricultural biogas plant** (Greenwatt Group)	Christian VETTERLI & Marc MENOUD (Greenwatt)
17:15	Departure for Gruyères (40 minutes, 35 km)	
18:00	Walk around Gruyères followed by dinner in the inner-city	-
20:15	Depart Gruyères and transfer back to Spiez (1h15 min, 106 km)	-
21:30	Arrival at ABZ in Spiez	-

TRANSLATION FROM FRENCH/GERMAN VERSIONS

Press Release for World Water Day 2017

Nestlé Waters Protects Local Water Resources And Encourages Biodiversity And Renewable Energy Together With Farmers And Authorities

Henniez, March 22, 2017 - On the occasion of today's World Water Day, Nestlé Waters Switzerland confirms its commitment to the protection of the water resources. Henniez VD Mineral Water has been promoting and selling mineral water for more than 100 years. To protect the natural resources of the region, Nestlé Waters launched the ECO-Broye program shortly after buying the Henniez mineral springs. It is an environmental management system from Nestlé, which does not stop at water protection.

The mineral water Henniez owes its properties to an undisturbed environment and a molasse sediment. Already under its former ownership, the area made up of the sevens springs was designated, in 1991, as a 110 hectare protected area and natural park and named the domain of Henniez. In order to preserve the quality of the source water, 70'000 trees were planted in the watershed. Moreover, within the watershed's protection zone, the use of pesticides, plant protection products, and fertilizers is prohibited for use on the agricultural lands.

In 2009, two years after the purchase of the mineral springs of Henniez, Nestlé Waters launched the ECO-Broye program. The declared objective of the program is to further strengthen the already initiated initiatives to protect sources and natural resources and extend them to the entire Broye region. Francesco Davila, the environmental manager of Nestlé Waters Switzerland, stated "For the protection of the natural quality of the water the soil is central,". As the rainwater seeps through soils, rock strata and sediments for a period of seven to ten years, it is naturally purified and enriched with minerals.

It took two years to establish collaboration with nearly 70 farmers, municipal and cantonal authorities, as well as other key players in the region. Today, Nestlé Waters, together with its partners, promotes biodiversity and protects the natural resources of the region on an area of 2300 hectares. "Our initiative goes far beyond the catchment area of the spring," says Davila.

In 2017, the first phase of the five main projects of the ECO-Broye program are essentially completed. Presentation of projects:

Promotion of biodiversity

The sharp increase in agricultural crops in the Broye region over decades has caused the fragmentation of wildlife habitat. Numerous animal species have been displaced into delineated biotopes, resulting in decrease in biodiversity and genetic diversity. By expanding specific biotopes and creating other biotopes, the biodiversity of fauna and flora could once again be promoted. To achieve this, 64 farmers in the region had to refrain from cultivating certain fields. From the planned 400 hectares, the final project covered an area of 1,500 hectares spread over seven municipalities, where restrictions are put on the types of agricultural cultivation that can take place.

Natural water filtration

In order to protect a tributary of the Broye, a 100% biological water filtration zone was established. Its principle is based on the action of plants able to absorb undesirable elements naturally present in the soil or resulting from human activity, such as agriculture. Its installation also creates a specific biotope for amphibians and fish.

Revitilatization of a stream

There was a time when men thought they could better use or exploit nature by altering or channelling rivers and streams underground. Nowadays, this idea has been abandoned. In 2015, a formerly underground canalized stream was revitalized and brought above ground for a length of 300 meters within the Domaine d'Henniez. The natural course of water contributes to the prevention of floods and promotes biodiversity. Concretely, a species of crayfish threatened with extinction have been reintroduced and reeds and other aquatic vegetation are establishing themselves in the protected area thanks to the ECO-Broye program.

Plant Diversification

Since about 30 varieties of fruit trees have been replanted on the Domaine d'Henniez, native fruit trees - some of which are almost forgotten - are growing again, including wild cherry, pear, and plum varieties. It is also helping to promote biodiversity.

Switzerland's largest agricultural biogas plant

In 2016, Nestlé inaugurated Switzerland's largest agricultural biogas plant next to the Henniez bottling plant. The facility financed, built and operated by the Group E Greenwatt generator, uses 23,000 tonnes of natural fertilizer annually from nearly 30 farms in the region. This, on the one hand, protects water resources by preventing excess fertilizer from leaching into the groundwater of the watershed. On the other hand, this process results in a high-quality fertilizer which the farmers involved receive in exchange for the slurry manure which they no longer need to apply to the fields. The fertilizer produced in the biogas plant has a very high nutritional value and is better absorbed by the plants than mineral fertilizer than manure. In addition, the fertilizer meets the criteria of all current organic-certification systems.

In addition, 3800 tons of organic waste from the production of Nespresso and Nescafé in the region is converted into biogas. This biogas converted into a thermal power plant produces 4 million kWh of electricity and 4.5 million kWh of heat per year.

Nestlé uses some of the heat at its bottling site; which means the proportion of renewable energy used by the plant thus reaches more than 40% for heat. As the plant uses only electricity from renewable energies, the share of renewable energy used is around 70%. By replacing fossil fuels with biogas plants, Nestlé and third parties prevent the release of a total of 1,750 tons of CO2 into the atmosphere every year.