

*Una manera de hacer Europa*



# BUENAS PRÁCTICAS Actuaciones Cofinanciadas

"9I YW h'cb'cZgUb]hU]cb'UbX'di f]Z]WU]cb'cZi fVUb'k UghYk UHyf"  
5 a Uf[ i ]'c'f]j Yf'VUg]b"DYfZ'fa UbW]g]b'J]'Uz'UbWU'XY'cg'  
7 UVU'Yfcg"

5 [ i Ug'XY'Ug'7i YbWUg'XY'9gdUk Uf5 7I 5 9GL

**Programa Operativo  
Plurirregional de España**

Año 2021

**Fondo Europeo de Desarrollo Regional**



## Presented as Good Practice the action "EXECUTION OF SANITATION AND PURIFICATION OF URBAN WASTEWATER. AMARGUILLO RIVER BASIN. PERFORMANCES IN VILLAGRANCA DE LOS CABALLEROS"

The action benefits the municipality of Villafrañca de los Caballeros (Toledo) which, together with Consuegra and Madridejos, are part of the set of actions that the state mercantile company Aguas de las Cuencas de España (ACUAES) is developing to improve the sanitation and purification of the Amarguillo River area, whose waters flow into the Las Tablas de Daimiel Park.

Effluent discharges from the different agri-food industries that are located in Villafrañca de los Caballeros are discharged to this river. These discharges contain a large amount of organic matter and nutrients, which must be eliminated by the location of a sensitive area downstream, the aforementioned Parque de las Tablas de Daimiel.

The existing purification system reduced organic matter and suspended solids, but it was not sufficient in terms of nutrient removal.

To put an end to this problem, a new treatment plant has been built that includes a pretreatment designed to treat a flow equivalent to five times the average flow rate and new biological treatment systems, carousel type, which allow the elimination of nutrients. Likewise, a storm tank and two pipes have been built that transport the raw water to the treatment plant for treatment.

### VILLAGRANCA DE LOS CABALLEROS WWTP



The total investment of the Villafrañca de Los Caballeros project amounts to 2.7 million euros. The eligible cost was 2.5 million euros with an ERDF grant of 50% of the investment.

This action serves a population of 10,875 equivalent inhabitants (pollution unit that refers not only to the inhabitants but also to the industry or livestock of a municipality).

It is considered a Good Practice because:

The role of the ERDF in the action has been adequately disseminated among the beneficiaries, potential beneficiaries and the general public

Different actions have been carried out in the field of communication with the aim of making known to the general public the co-financing of the treatment plant project with the ERDF Fund, highlighting the role of European aid for the development of Spain and its regions.

Poster and plaque



Newspaper advertisement

On the occasion of World Water Day, announcements have been published with express indication of the contribution of the ERDF Funds in the execution of the works.





Panel for the signing of the agreement with the City Council on December 11, 2018

The event was echoed by several media (La Tribuna de Toledo, El Día Digital and El semanal de La Mancha).

<http://elsemanaldelamancha.com/not/27113/villafraanca-de-los-caballeros-mejorara-la-...> 12/12/2018

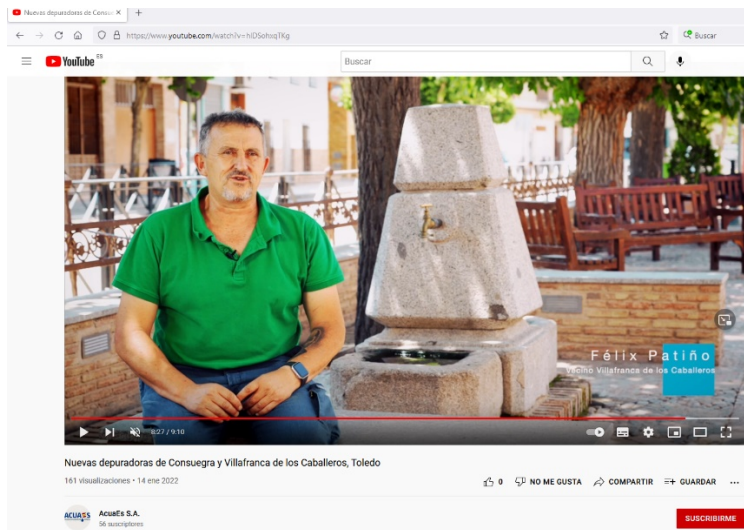
Villafraanca de los Caballeros mejorará la calidad de sus vertidos con una depuradora... Página 2 de 9

Un presupuesto de 3,2 millones de euros se adelantará por Acuaes y los respectivos Ayuntamientos. El proyecto está cofinanciado por el Fondo Europeo de Desarrollo Regional FEDER 2014-2020, dentro del Programa Operativo Plurirregional de España (POPE).

El presupuesto de licitación, según ACUAES, es de 3.189.524 euros, que serán adelantados por Acuaes y los respectivos Ayuntamientos. El proyecto está cofinanciado por el Fondo Europeo de Desarrollo Regional FEDER 2014-2020, dentro del Programa Operativo Plurirregional de España (POPE).

Informative brochure of the performance

Video that has been projected on the ACUAES website and on the social networks YouTube and Twitter Interviews were included with neighbours and businessmen, who showed their gratitude for the co-financing of the works by the ERDF Fund.



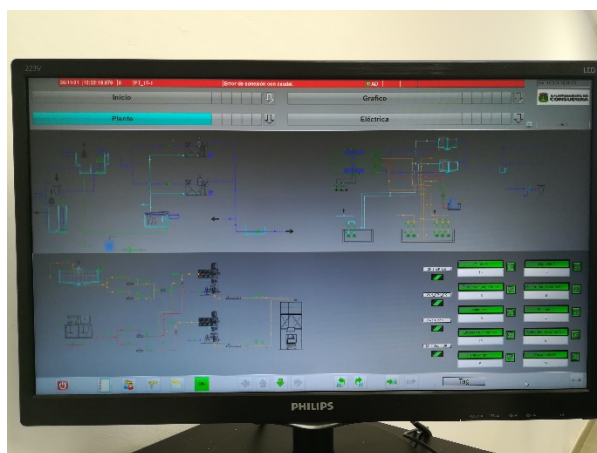
<https://youtu.be/hlDSohxqTKg>

### **The performance incorporates innovative elements**

Innovative elements of the action include the installation of a biological reactor and the automation of the purification process.

With the first, the concentrations of nitrogen and phosphorus present in the wastewater are reduced, two of the fundamental contents to be eliminated for compliance with the discharge of the treated waters in ideal conditions to the Amarguillo River.

In addition, with automation through the SCADA system, it allows the operation of the treatment plant only when necessary, thus achieving that the energy consumption is adjusted (energy efficiency), depending on the oxygen demand, which varies by the hour.



SCADA SYSTEM

### **Adaptation of the contents to the objectives pursued**

Villafranca de los Caballeros lacked an adequate and efficient treatment for municipal, urban and industrial wastewater discharges, thus generating problems of pollution of the waters of the Amarguillo River.

The objectives pursued in this action are mainly based on the correct treatment of the discharges of the wastewater of the municipality, especially in relation to the elimination of nutrients, when the discharge is carried out in a tributary to the Tablas de Daimiel, declared as a "sensitive area" for its high natural value.

With the execution of the works, these objectives have been achieved, since, through the purification of wastewater, they are subjected to a series of processes, physical, chemical and biological, through which the polluting elements are reduced, until adopting correct values for their discharge into the channel, in compliance with current regulations on wastewater treatment.

### **Contributes to the resolution of a regional problem or weakness**

The conservation of the Tablas de Daimiel National Park involves the recovery of the aquifer of La Mancha Occidental, where the park is located, and the improvement of the quality of surface water, among which is the Cigüela River and its tributary tributary, the Amarguillo River.

In situations of persistent drought, as are common in that area of Spain, it is of great importance that the waters that reach Las Tablas de Daimiel as a result of the purification systems are in an optimal state of quality, to allow the survival of the Park itself and the species of flora and fauna that reside in it.

Villafranca de los Caballeros wastewater pours into this river, which incorporates, through its collectors, agri-food waste with a strong component of organic matter and nutrients, which are corrected with the action that is presented.

### **It has a high degree of coverage over the target population**

The construction of this infrastructure covers the needs of the population to which it is directed, 10,875 inhabitants, but also the works are part of the set of actions planned in the Amarguillo river basin, which will benefit in its entirety about 73,000 equivalent inhabitants, thus reaching a wide degree of coverage over the general population of this basin.

Therefore, it can be said that the coverage of the population to which it is directed is 100%.

### **The horizontal criteria of equal opportunities and environmental sustainability have been taken into account**

The development of this action has taken into account environmental sustainability criteria by minimizing the environmental impact of the facilities, also avoiding the spread of bad odors and noise; In addition, the result obtained from the purification of wastewater once treated in the built facilities, discharge into the channel in optimal quality conditions.

The horizontal criteria of equal opportunities and non-discrimination have been taken into account, since the action benefits the entire population.

In the processing of the contracts through which the works have been developed, the legislation, regulations and procedures that guarantee equality and non-discrimination have been complied with, as set out in the ACUAES Code of Ethics. Thus, the document approved by the Board of Directors of the company states that "all people are born free and equal before the law, will receive the same protection and treatment from the authorities and will enjoy the same rights, freedoms

and opportunities without any discrimination based on sex, race, origin, language, religión, political opinion." "Public servants, he concludes, are obliged to guide their actions and the decision-making necessary for the fulfillment of the essential purposes of the general interest."

### **Synergies with other public intervention policies or instruments**

The action has synergy with the project that ACUAES has developed in the municipality of Consuegra and with which it will be executed soon in Madridejos, in order to contribute to the sanitation and purification of the Amarguillo River, whose waters flow into the Park of Las Tablas de Daimiel. Both actions will be financed from the ERDF Fund 2014-2020.

This action is in addition to the fulfillment of the different actions foreseen in the Program of Measures of the Hydrological Plan of the Guadiana Demarcation and the National Water Quality Plan, whose objectives they share with the Water Framework Directive, such as the improvement of the quality of the bodies of water and the sustainable management of them.



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