

Una manera de hacer Europa



BUENAS PRÁCTICAS

Actuaciones Cofinanciadas

“Wastewater treatment project for Esguevillas de Esgueva, Valoria la Buena and Quintanilla de Onésimo (Valladolid)”

General Direction of Water

**Programa Operativo
Plurirregional de España**

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Fondo Europeo de Desarrollo Regional

The action “WASTEWATER TREATMENT PROJECT FOR ESGUEVILLAS DE ESGUEVA, VALORIA LA BUENA AND QUINTANILLA DE ONÉSIMO (VALLADOLID)” is presented as a good practice

The municipalities that benefit from this project are Esguevillas de Esgueva, Valoria la Buena y Quintanilla de Onésimo. Prior to execution of the actions presented here, none of the towns had adequate treatment for their wastewater, which was discharged directly into nearby rivers.



Image 1.- Esguevillas de Esgueva Wastewater Treatment Plant.



Image 2.- Quintanilla de Onésimo Wastewater Treatment Plant.

The population benefiting from this action is distributed as follows: 400 equivalent inhabitants in Esguevillas de Esgueva, 1,300 equivalent inhabitants in Valoria La Buena and 1,800 equivalent inhabitants in Quintanilla de Onésimo, making a total of 3,500 equivalent inhabitants served.

The works carried out to reduce the pollution contributed by the consisted of the construction of new wastewater treatment plants, one in each of the municipalities, and the necessary sewers to carry the wastewater to the new plants.

In summary, the solutions adopted for each town are configured by means of wastewater treatment plants adapted to the size of each population, consisting of simple roughing and desanding pretreatments, primary treatments using decanters-digesters and biological treatments configured by subsurface flow wetlands (Esguevillas de Esgueva). bacterial beds (Valoria la Buena) and Rotating Biological Contactors (Quintanilla de Onésimo). These last two plants are completed with a secondary decantation for the elimination of carbonated organic matter and the reduction of nitrogen.

The total investment of the project amounts to 2,686,402.44 euros. The eligible cost, once the work has been completed, was 2,633,008.00 euros, with ERDF assistance of 1,200,835.00 euros, which represents 45.61%.

It is considered a Good Practice because:

- The action has been conveniently disseminated among the beneficiaries, potential beneficiaries and the general public.

We have considered all those actions designed to publicize WASTEWATER TREATMENT PROJECT FOR ESGUEVILLAS DE ESGUEVA, VALORIA LA BUENA AND QUINTANILLA DE ONÉSIMO (VALLADOLID), with the main objective of informing the public of its objective of improving the quality of treated water.

Sing post.



In addition, a number of differentiated communication tools have been implemented, such as:

Informative dossier of the action, published by the CH Duero

Copies have been published and distributed at the Esguevillas de Esgueva Town Hall, Valoria la Buena Town Hall and Quintanilla de Onésimo Town Hall.



Open days and visits by authorities



News

The action has been publicised in the local, regional and national media, informing the public of the benefits achieved with the execution of the works, through the reference of the contribution of the EFRD Funds in its execution. It has also been disseminated through the CH Duero's own website.

www.informecorredor.es/valoria-la-buena-valor-la-buena-20230212100041.html

Quintanilla de Onésimo, Valoria y Esguevillas estrenan depuradora

Agencia Operadora Lizaso - 2-4 minutos - 21/02/2023



Instalaciones de la estación de la depuradora de Quintanilla de Onésimo, durante la inauguración.

La Confederación Hidrográfica del Duero ha invertido 12 millones de euros en saneamiento e infraestructuras en la provincia en diez años

La presidenta de la Confederación Hidrográfica del Duero (CHD), Cristina Danés, se ha acercado hasta Quintanilla de Onésimo, Valoria la Buena y Esguevillas de Esgueva para visitar sus respectivas Estaciones Depuradoras de Aguas Residuales (EDAR), ejecutadas recientemente por el organismo que preside: tres depuradoras en las que se han invertido 2,5 millones euros y que dan servicio a un equivalente de 2.500 habitantes.

En Quintanilla de Onésimo se ha invertido 1.320.637 euros, para una población equivalente a 1.800 habitantes; mientras que en Valoria la Buena la inversión ha sido de 887.388 euros, para una infraestructura con capacidad para 1.350 vecinos. Danés anunció que la próxima EDAR se construirá en Villanueva de Duero.

Las obras han sido financiadas por la Confederación Hidrográfica del Duero y el Fondo Europeo de Desarrollo Rural en el marco del Programa Operativo FEDER y el Plan Nacional de Calidad de las Aguas.

Menos vertidos

www.midiadivalladolid.com/valoria-la-buena-valor-la-buena-20230212100041.html

La CHD pone en funcionamiento una depuradora natural en Esguevillas de Esgueva

El Día de Valladolid - 2-3 minutos - 27/02/21

La Confederación Hidrográfica del Duero (CHD), organismo autónomo adscrito al Ministerio para la Transición Ecológica y el Reto Demográfico, ha construido y puesto en funcionamiento una estación depuradora de aguas residuales (EDAR) en Esguevillas de Esgueva (Valladolid), formada por dos humedales artificiales que trabajan en paralelo alcanzando un óptimo rendimiento en el tratamiento de las aguas residuales, siendo una Solución Basada en la Naturaleza, alternativa al sistema convencional.

Estas técnicas consisten en la construcción de balsas o canales sobre las que se desarrollan plantaciones de especies de ribera que generan microecosistemas con entidad propia, que permiten alcanzar unos niveles de tratamiento adecuados con la máxima integración ambiental y sin consumo energético, algo esencial de cara al mantenimiento y explotación de la instalación.

La ejecución de la EDAR ha supuesto una inversión aproximada de 310.000 euros por parte del Organismo, siendo cofinanciada por el Fondo Europeo de Desarrollo Regional FEDER, tratando las aguas residuales de una población de 400 habitantes equivalentes.

Esta nueva tecnología que combina el sistema tradicional con otro más sostenible aporta un importante valor añadido desde un punto de vista ambiental, generando un ecosistema natural que permite albergar fauna local asociada a los cursos de agua.

La CHD ha abordado este proyecto con los retos de hacer asumible el coste del tratamiento o integrar las instalaciones de depuración en el medio natural propio del entorno rural. Por eso, como en este caso, ha apostado por los sistemas basados en la construcción de humedales artificiales que imita los procesos de depuración que la propia naturaleza realiza en nuestros cursos.

Desde el Organismo se insiste en la necesidad de alcanzar los objetivos ambientales en materia de agua y la importancia del Plan Nacional de Depuración, Saneamiento, Eficiencia, Ahorro y Modificación (Plan DSEAR) para lograr las metas marcadas por la normativa nacional y comunitaria.

➤ **The action incorporates innovative elements**

The wastewater treatment plant built in Esguevillas de Esgueva has a secondary treatment system using a Horizontal Subsurface Flow Artificial Wetland (HAFSs), which is one of the so-called non-conventional technologies. This plant, due to its configuration, does not need electricity consumption for its operation.

Each plant is equipped with a SCADA control system that will be responsible for supervising the installation, recording data in real time and establishing the man-machine dialogue necessary to optimize the maintenance and fine-tuning work.

At the Valoria la Buena and Quintanilla de Onésimo wastewater treatment plants, two control buildings have been designed with façade materials that are respectful and in coherence with the surrounding environment, thus seeking their integration into the surroundings.

➤ **Adequacy of the contents to the objectives pursued.**

The objectives pursued in this action are mainly based on improving the quality of the receiving water bodies and associated ecosystems, thus contributing to the achievement of the objectives set by the Water Framework Directive.

These objectives have been achieved with the implementation of the project, as the waste water is subjected to a series of physical, chemical and biological processes which reduced the pollutants to the point where they can be discharged into the receiving waterways, in compliance with current regulations on wastewater treatment.

➤ **Contributes to the resolution of a regional problem or weakness.**

The towns included in the project lacked efficient treatment for municipal wastewaters discharges, thus having water pollution problems. In the case of Valoria La Buena and Quintanilla de Onésimo, there was no previous wastewater treatment, so that the flow was discharged into the receiving watercourse with a high concentration of polluting parameters, which caused that the river were in very poor conditions, with odor problems and a lack of hygiene.

Thanks to the execution of the action, the existing problems disappear, and a high quality of the treated water that is finally discharged is obtained.

➤ **It has a high degree of coverage on the population to which it is addressed.**

The construction of these infrastructures covers the needs of the towns of Esguevillas de Esgueva, Valoria la Buena and Quintanilla de Onésimo in its entirety, contributing to the improvement of the state of receiving watercourse, and providing service to a total of 3,500 equivalent inhabitants.

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

The horizontal criteria of equal opportunities have been taken into account, as the action benefits the entire population without any discrimination. Furthermore, access to the information of the action has been facilitated to those people without internet access, to through the publication of brochures, which have been distributed at strategic points in the Town Halls, for greater accessibility to the public.

The main aspect that has contributed to the environmental sustainability of the area is the contribution of the actions to achieve a good state of water quality and, in particular, in the area where there was environmental deterioration, such as the discharge points of untreated wastewater. As secondary aspects that also contribute to environmental sustainability, the minimization of the environmental impact of the facilities must be taken into account, seeking to ensure that they adapt to the aesthetics of the environment, also avoiding the propagation of unpleasant odors and noise.

Likewise, the contracts associated with this action have been tendered through an open procedure, thus guaranteeing equal opportunities for companies interested in obtaining the award of said contracts.

➤ **Synergies with other policies or instruments of public intervention.**

This action has synergies with other actions since it has been carried out within other policies different from the European regional policy, such as the National Water Quality Plan, whose objective, shared with the Water Framework Directive, is to improve the quality of water bodies and their sustainable management.

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