



T.C.
MUĞLA BÜYÜKŞEHİR BELEDİYE BAŞKANLIĞI
Su ve Kanalizasyon İdaresi Genel Müdürlüğü
Plan Proje Yatırım ve İnşaat Dairesi Başkanlığı



Sayı :
Konu : Gümüşlük WWTP Complaint
Explanation

07.06.2024

MUS W3 GUMBET GUMUSLUK WASTEWATER TREATMENT PLANT REVISION
CONSTRUCTION WORK
STAKEHOLDER INFORMATION LETTER

- Reference: a) 09.06.2021 dated meeting
b) 18.08.2021 dated meeting
c) 23.09.2021 From MUSKI to Gumusluk Forum
d) 15.10.2021 From Gumusluk Forum to MUSKI
e) 20.10.2021 dated meeting

Our Administration completed the rehabilitation works of the "Gümüşlük Wastewater Treatment Plant (Gümüşlük WWTP)" with financing received from İller Bankası A.Ş. under the Sustainable Cities Series of Project (SCP-1 and SCP-2 AF), which is financed by the World Bank. We give high priority to environmental and social aspects of the project and integrate feedbacks from the public into the project design, within the framework of technical and financial opportunities.

All technical, environmental, and social standards have been secured as required in national regulations and environmental and social safeguards policies of the World Bank during the preparation and implementation of Gümüşlük WWTP Rehabilitation Project. The Gümüşlük WWTP Rehabilitation Project not only aims to increase the capacity of the existing WWTP for the current and future need of the population but also uses more advanced treatment namely MBR (Membrane Bioreactors), which provides higher discharge standards compared to conventional treatment technologies required in the Urban Wastewater Treatment Regulation.

This advanced treatment technology is also widely used for the treatment of drinking water. MBR systems lead to better effluent quality resulting in lower pollutant concentration in discharged wastewater. The applied advanced treatment method ensures that the quality of the treated wastewater meets all environmental and health related criteria prescribed in the national regulations, and whenever possible reaches the first-degree irrigation water quality defined in the Communiqué on Wastewater Treatment Facilities Technical Procedures (published in the Official Gazette dated March 20, 2010). Our Administration applied for and received all necessary approvals from relevant national agencies (including the Ministry of Environment, Urbanization and Climate Change - MoEUCC and the General Directorate of State Hydraulic Works - DSI) regarding the technical design of the plant and discharge quality standards and location of the treated water.

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Doğrulama Kodu: j5KODf-ziGNv0-CCLUbe-PzPPtt-b6KXOa0O Doğrulama Linki: <https://www.turkiye.gov.tr/icisleri-belediye-ebys>



The effluent of the wastewater treatment plant is being monitored online 24/7 as part of the MoEUCC's "Continuous Wastewater Monitoring System". In addition, our Administration has been published on our website¹ the analysis results of samples taken at regular intervals (by an independent accredited laboratory) from 3 points (which are the discharge point, 500 m and 800 m downstream) on the Karakova stream where Gümüşlük WWTP is discharged. Please find the attached results of five set of samples collected every 15 days in the last two months and analyzed by an accredited independent laboratory.

The results from the laboratory indicate that the treated water discharged from Gümüşlük WWTP into the stream meets the pollution parameters specified in the Urban Wastewater Treatment Regulation (published in the Official Gazette dated August 1, 2006). However, at distance of 500 and 800 meters downstream from the WWTP towards the sea, the results show that pollution parameters exceed the specified limits for parameters (e.g. fecal coliform) in the same regulation. These results show that the pollution in the stream is not related to discharge from the rehabilitated WWTP, but likely due to illegal wastewater connections/discharges to the stream further downstream.

In addition, based on the experience in using treated wastewater for irrigation in Muğla WWTP and Konacık WWTP, our Administration is also working on alternatives to use the treated water from Gümüşlük WWTP for irrigation purposes. We have received an official letter from Muğla Metropolitan Municipality's Agricultural Services Department and Bodrum Municipality's Parks and Gardens Directorate regarding the usability of treated water from Gümüşlük WWTP as irrigation water in residential gardens and areas such as parks and medians throughout the district. Re-use of the gray water would maximize resource efficiency in use of scarce water resources in Gümüşlük region. We are now developing potential financing options with ILBANK for the construction of the gray water network that would be required to enable the use of the treated water as irrigation water. Upon securing financing, the gray water network project and its technical details will be shared with the public and your NGO as part of the public consultations process.

As a result, we expect the Gümüşlük WWTP Rehabilitation Project to ultimately make a positive contribution to the protection of the natural resources of the Bodrum Peninsula and the prevention of possible environmental pollution and contribute to the creation of healthier living conditions by preventing elements that may pose a danger to public health.

Kind regards.

Attachments: 1- Test results of five sets of collected samples (162 pages)

¹ www.muski.gov.tr/homepage/announcements

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Doğrulama Kodu: j5KODf-ziGNv0-CCLUbe-PzPPtt-b6KXOa0O Doğrulama Linki: <https://www.turkiye.gov.tr/icisleri-belediye-ebys>

