

PepsiCo Dragomiresti WWTP – Ilfov County,

EPC of brown-field
WWTP



NAIAD Water Solutions was awarded the contract for the refurbishment of the existing WWTP within the PEPSiCo. International production facility for beverages, located in Dragomiresti, Ilfov County, Romania.

The project mainly comprises of the upgrade of the electro-mechanical equipment and the refurbishment of clarification tanks.

The upgraded WWTP, which features both mechanical and biological treatment

stages, has a capacity of 2.550 m³/d, and includes a MBBR technology.

The modernisation works have been completed at end of 2017.

NAIAD Water Solutions has also operated the plant for a period of 15 months.



Features:

- Modernisation of industrial effluent treatment plant based on MBBR process (FLUOPUR®):
- Capacity: 2.550 m³/d
- Turn-key completion

Client

PEPSiCo. International

Type of Contract

EPC – Turn-key Execution O&M
– Operation
& Maintenance

Award of Contract

November 2016

Commissioning

2017

Capacity

2.550 m³/d

Wastewater

Effluents resulted from
Beverage Production

Technology

MBBR – FLUOPUR® process

Scope

Design, engineering, supply,
installation, commissioning

O&M

Start: January 2018
End: March 2019

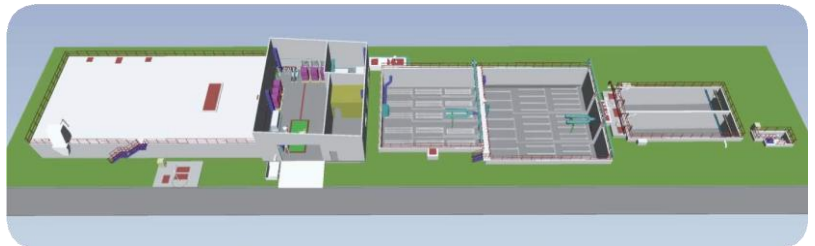
Main Components and Process Steps:

- Mechanical pre-treatment
- pH control
- Biological treatment (MBBR)
- Sludge dewatering (new)

Scope:

- Upgrade of electro-mechanical equipment
- Rehabilitation of clarifiers
- Implementation of sludge dewatering

The new design was successfully tested on-site for several months by using a pilot plant prior to full-scale implementation.



Parameter Wastewater

Units

Limits

COD

mg/l

≤ 125

BOD₅

mg/l

≤ 25

TP

mg/l

≤ 5

Phenol Index

mg/l

≤ 0,3

Total N

mg/l

≤ 15