

Jacopa SAF - Temporary Treatment Plants for Northern Ireland Water



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- Mobile units-Easy installation.
- Rapid set-up.
- Small footprint.
- Discharge Standards achieved.
- Easy to operate
- Continuous Robust treatment.
- Available for hire

The Brief

Over the Past number of Years Northern Ireland Water required the replacement of several medium sized WwTW's with a completely new treatment process. PE's ranged from 470 to 1776. As the existing sites needed to be reused, NIW chose to install temporary treatment plants, thus allowing demolition of the old whilst simultaneously constructing the new treatment process plants.

A temporary solution was provided by Jacopa and this was installed on a very small footprint in order that it did not interfere with the new process.

The Solution

The Jacopa SAF systems including pump station, primary and final settlement tanks were hired and installed to provide total treatment with the process being seeded with activated sludge for fast start-up.

The Result

With their small footprint, the SAFs had minimal negative impact on the construction layout of the new works. In fact, the fixed-film biological Jacopa SAF treatment units had an immediate effect on BOD reduction and were 100% effective in less than four weeks of start-up, thus allowing an earlier commencement of site work.

Throughout the period that the treatment plants were in operation Jacopa conducted monitoring to NIW and NIEA standards, thus ensuring that site discharge standards were not exceeded.

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The Standards that had to be achieved during the demolition of old assets and construction and commissioning of the new plant were as follows.

	Design PE	Discharge Standard		
		BOD mg/l	SS mg/l	Ammonia mg/l
WwTW-Site 1	1776	20	30	15
WwTW-Site 2	773	30	50	10
WwTW-Site 3	735	30	50	10
WwTW-Site 4	470	35	55	7.5
WwTW-Site 5	921	20	30	N/A



Jacopa 2000 PE SAF Plant.