



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Ambassade de Suisse en République d'Haïti
Bureau de la coopération suisse

As Samra wastewater treatment plant (Jordan)

Source of information: SUEZ Degremont WEB site and Bernard Bon, Director of As Samra WWTP



Spiez – 29/06/2017 – Georges Burri, SDC Responsable of DRR Haïti



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Ambassade de Suisse en République d'Haïti
Bureau de la coopération suisse

As Samra wastewater treatment plant (Jordan)

Source of information: Wikipedia

The Hashemite Kingdom of Jordan



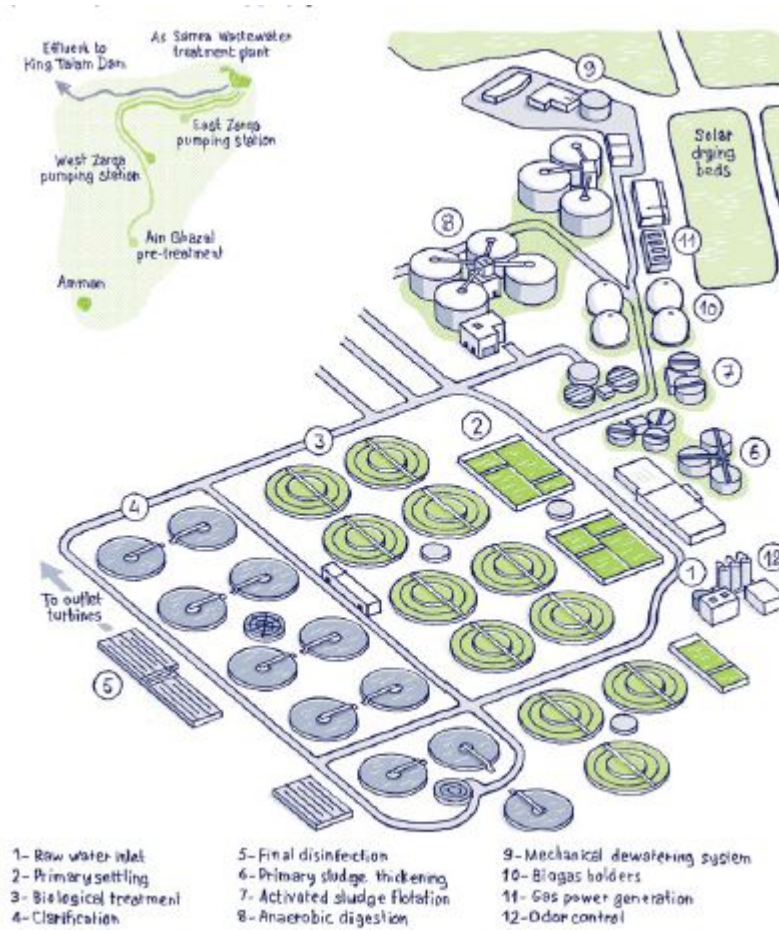


Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Ambassade de Suisse en République d'Haiti
Bureau de la coopération suisse

As Samra wastewater treatment plant (Jordan)

Source of information: SUEZ Degremont WEB site and Bernard Bon, Director of As Samra WWTP





As Samra wastewater treatment plant (Jordan)

Source of information: SUEZ Degremon WEB site and Bernard Bon, Director of As Samra WWTP

The As Samra Wastewater Plant as per today has been built in two steps. The first infrastructure has been constructed between 2003 and 2008 and the second phase has been completed at the beginning of 2016. A third extension has already been designed and should enter soon in construction.

As Samra WWTP capacity and approximate cost:

Steps	Treatment capacity	Population coverage	Cost
N°1 (2003 – 2008)	~ 265'000 m ³ /day	~ 2,3 millions	~ 200'000 USD
N°2 (2012 – 2016)	~ 365'000 m ³ /day	~ 3,2 millions	~ 100'000 USD
N°3 (2018 – 2022)	~ 470'000 m ³ /day	~ 4,1 millions	?

The conception and construction of As Samra WWTP has been made through a Build, Operate and Transfer contract for 25 years effectiveness



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Ambassade de Suisse en République d'Haïti
Bureau de la coopération suisse

As Samra wastewater treatment plant (Jordan)

Source of information: SUEZ Degremon WEB site and Bernard Bon, Director of As Samra WWTP

The As Samra Wastewater Plant as the particularity to produce ~ 80 % of the energy requested for its operation. Part of this energy is produced by running turbines with the flow of the raw water affluent as well with the flow of the treated water effluent. In addition to this source of energy and additional production of electricity is made through generation with the biogas produced from the sludge.

The quality of the effluent of the WWTP complies with WHO standard:

WATER QUALITY			
Inlet		Outlet	
BOD ₅	637 mg/l	BOD ₅	5-30 mg/l
TSS	647 mg/l	TSS	15-30 mg/l
TN	100 mg/l	TN	15-30 mg/l

The water after treatment goes to the King Talam Dam which is supplying irrigation water for the North on the Jordan Valley.



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Ambassade de Suisse en République d'Haïti
Bureau de la coopération suisse

As Samra wastewater treatment plant (Jordan)

Thank you