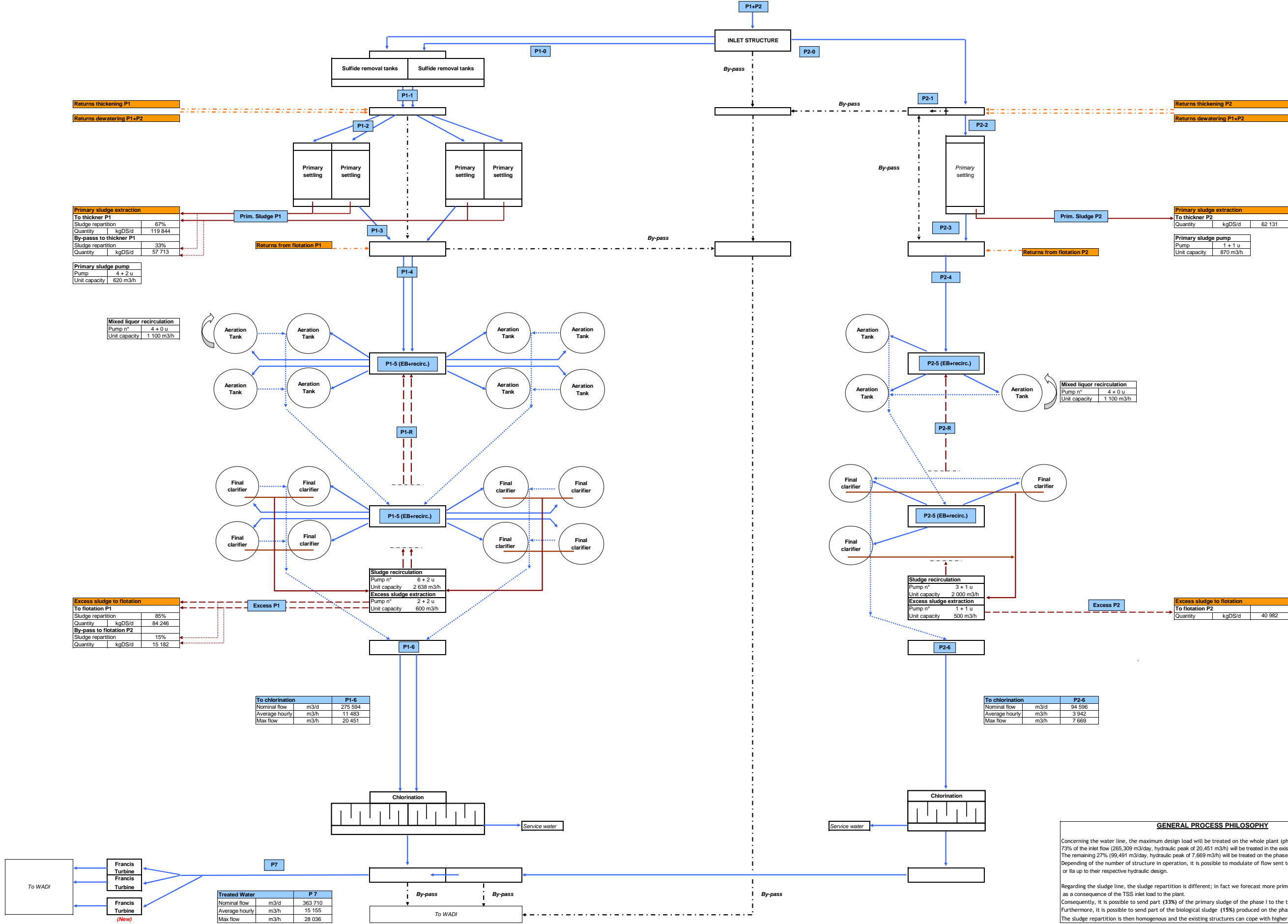


ANNEX A
AS SAMRA PROCESS FLOW DIAGRAM
WASTEWATER LINE JULY-2010

AS-SAMRA - Extension
Process Flow Diagramm - Water Line

RAW WATER	P1+P2	P1-0	P2-0	
Nominal flow	m3/d	364 800	265 309	99 491
Average hourly	m3/h	15 200	11 065	4 145
Peak flow	-	1,85	1,85	1,85
Max flow	m3/h	28 120	20 451	7 669



GENERAL PROCESS PHILOSOPHY

Concerning the water line, the maximum design load will be treated on the whole plant (phase I + phase IIa). 73% of the inlet flow (265,309 m3/day, hydraulic peak of 20,451 m3/h) will be treated in the existing phase I. The remaining 27% (99,491 m3/day, hydraulic peak of 7,669 m3/h) will be treated on the phase IIa new built plants. Depending of the number of structure in operation, it is possible to modulate of flow sent to the phase I or IIa up to their respective hydraulic design.

Regarding the sludge line, the sludge repartition is different; in fact we forecast more primary sludge production as a consequence of the TSS inlet load to the plant. Consequently, it is possible to send part (83%) of the primary sludge of the phase I to the thickeners of the phase IIa. Furthermore, it is possible to send part of the biological sludge (15%) produced on the phase I to the phase IIa. The sludge repartition is then homogenous and the existing structures can cope with higher inlet loads.