

Table S1: Hazardous events checklist

Section of SSP	Hazardous Event	
Collection Issues	Map of System	
	Leaks in System	
	Cracks in System	
	Recent Inspection	
	Unused/uncapped laterals	
	Inflow and Infiltration (collection)	
	Pipe material	
	Presence of cross connections	
	Pipe proximity to water mains	
	Treatment Operations	Manhole deterioration
Inflow and Infiltration		
Leaks in Lagoons or Tanks		
Backup Power Sources		
Age of system		
Pump Failures		
Pump clogging		
Pump backup power		
Pump overflows		
Pump inflow and infiltration		
Disinfection inoperational		
Disinfection chemical requirements		
Disinfection not meeting regulatory requirements		
Disinfection system cleanings		
Disinfection system clogging		
Operators	Operator certification	
	Operator training	
	Knowledge of system	
	Adequate record keeping	
	Backup operator	
	Treatment Design	Age of system (design)
		Recent upgrades performed
		Planned upgrades
		Design capacity
		Operating as designed
	Reports and Regulations	Infrastructure documentation
		Building construction
		SCADA System connected
		SCADA System alarms
		Effluent Quality - BOD
Effluent Quality - TSS		
Effluent Quality - Ammonia		
Effluent Quality - Fecal Coliforms		
Sampling frequency		
Adequate record keeping (discharge)		
Standard operating procedures (SOPs)		
Maintenance plans		
Hazardous Event		
Effluent Quality - BOD (discharge)		

	Effluent Quality - TSS (discharge)
	Discharge to drinking water source
	Recreational activities on discharge water body
	Receiving water vulnerability
	Map of system watershed