

Wastewater Treatment Facility (WWTF) Permit Exceedance Summary

Past, Present & Future

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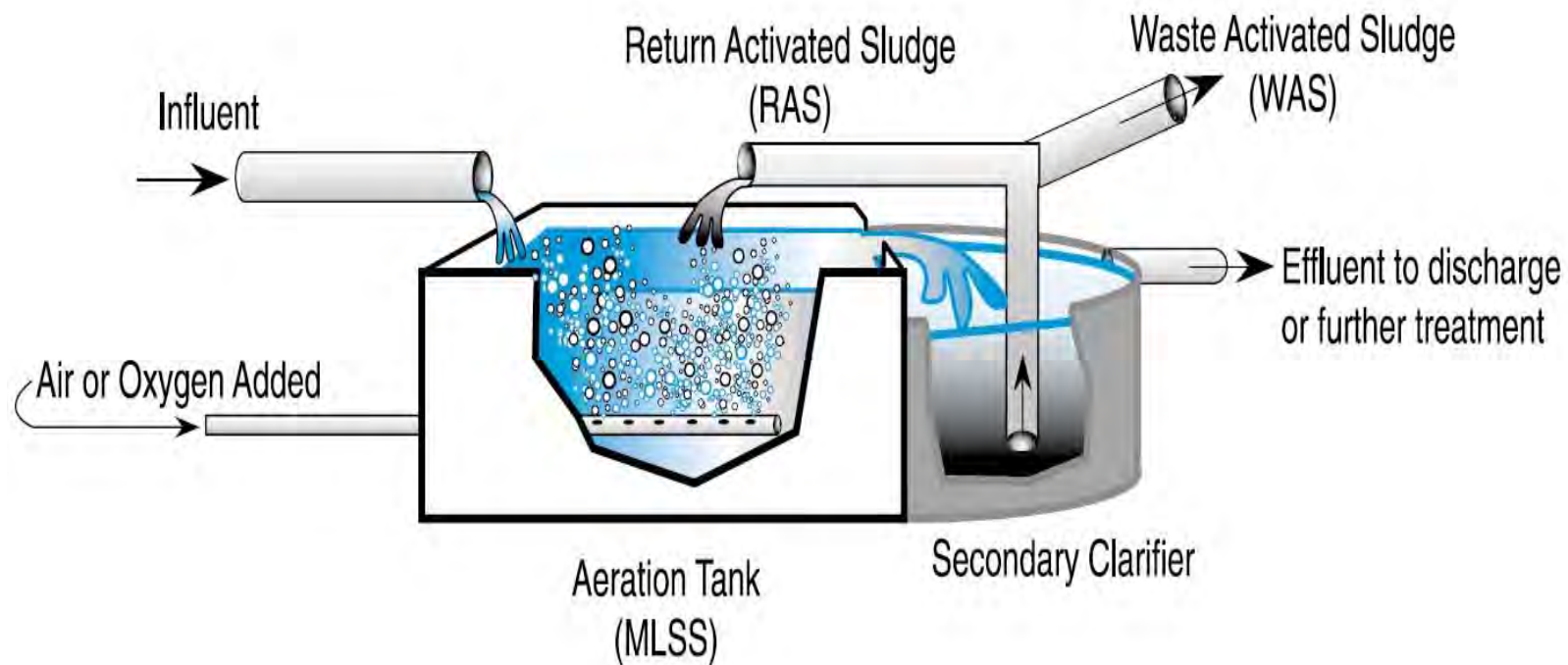
WWTF Background

- Originally built in two phases:
 - 1st phase completed 1972 (primary treatment)
 - 2nd phase completed in 1975 (secondary treatment)
 - Facility Expansion completed in 2005



Front Gate – Burns Drive

Typical Secondary Treatment System



Secondary Clarifier Function



Treated Effluent

“Bugs” – Sludge to
be returned to do
more work.

WWTF Exceedance History

Date Range	Violation \$ Amount	Number of Exceedances						
		Chlorine	Settleable Solids	Total Coliform	pH	BOD	Other	Total
2000-2007	\$ 99,000	3	11	14	5	none	none	33
2007-2010	\$ 9,000	none	2	none	none	2	none	4
2010	\$ 3,000	none	1	none	none	none	none	1
2010-2011	\$ 9,000	none	2	1	none	none	none	3
2011-2012	\$ 6,000	none	1	none	none	none	Diazinon (1)	2
2012-2014	\$ 30,000	4	6	none	1	none	none	11
Total	\$ 156,000	7	23	15	6	2	1	54

Risk Management

- Discharge Permit Conditions
- Asset Condition Assessment Program
- Staff Efforts

Secondary Clarifier Remedies

- Short Term –
 - Operations team will increase frequency of monitoring the secondary system and will review current practices of process control.
- Long Term –
 - Fourth secondary clarifier needs to be constructed. (\$4-5M)

Questions?

