

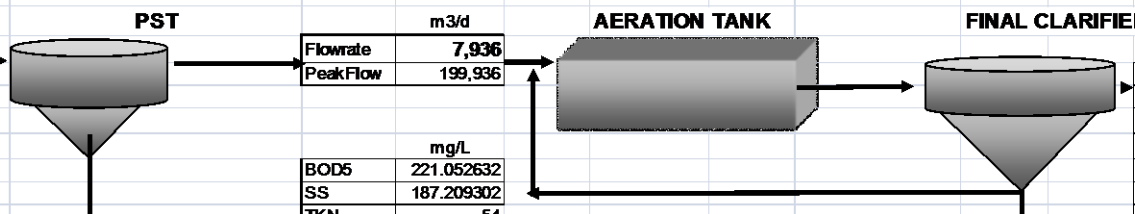
h	1.0	ReqdDNpot=	0.159	>0.15 not enough Cl
tR=	ATV	M & E	Chosen %rem	
% BODrem=	25.0	26%	26%	
% SSrem=	50.0	47%	47%	
% TNrem=	10%	10%	9%	
%TPrem=	11%	11%	11%	

ATV % removal rates		
	0.5-1.0 h	1.5-2.0 h
BOD5	25.00	33.33
COD	25.00	33.33
SS	50.00	64.29
TKN	9.09	9.09
P	11.11	11.11

METCALF & EDDY	
i/(0.018+0.02*iy)100	
-	-
i/(0.0075+0.014*iy)100	

LCD=	120
tCmax	35
tCmin=	27
Flowrate,m3/d	8,000
PeakFlow,m3/d	16000
PE	66,667

mg/L	
BOD5	300
SS	350
TKN	60
orgN	24
NH4N	36
TP	10



Flowrate	m3/d	7,936
PeakFlow		199,936
BOD5	mg/L	221.052632
SS		187.209302
TKN		54
orgN		18
NH4N		36
TP		8.9

BOD5eff=	25.00
TKNeff=	5.00
orgN	3.00
NH4N	2.00
NO3Neff=	5.00
TPeff=	3
TNeff=	10.00
% TN=	12.2%
% TP=	2.26%

WAS=	C <sub>50</sub> H <sub>87</sub> O <sub>23</sub> N <sub>12</sub> P	1374
fobs=	0.8	
SVF=	120	
YobsH=	1.00	
tR, h=	2.5	(w/N=1-1.5h, w/DN=2-2.5h)
Xr=	9,048	=fobs*1000000/SVF*tR*(1/3)

PS	
W,kg/d	1,302
Q, m3/d	63.8 = W/(%TS*Dens)
%TS	2.0%
Density=	1020
VSS%	65.0%
kg VSS/d=	847
BODinPS, kg/d	632
TKNinPS, kg/d	43
orgN, kg/d	40
NH4Nkg/d=	2
TPinPS, kg/d	8.8
Biodegradable Fractn of TSS	50.6%

WAS	
W,kg/d	2,400
Q, m3/d	265.3 = W/(%TS*Dens)
%TS	0.905
Density=	1000
VSS%	75.0%
kg VSS/d=	1,800
BODinWAS, kg/d	1,738 =%VSS*kgWAS/d*1.42*.68
TKNinWAS, kg/d	220
orgN, kg/d	220 =12.2%*kgWAS/d*%VSS
NH4Nkg/d=	0.5 =Qwas*NH4Neff*1000
TN to Thickener=	223 =Qwas,m3/d*(TKNeff+NO3Neff)/1000+TKNinWAS
TPinWAS, kg/d	47 = TPinAT-TPeff
Biodegradable Fr	79% =BODinWAS/(1.41*0.65*kgDS/d)