OMERLI KASKAT HAVALANDIRMA VE ON OZON TEMAS TANKI

Q total 1000000.00 m^3/day 11.57 m^3/sec

A. Boru yük kayıpları

1. Dagıtım Yapısı - Orhaniye

Tesis Giriş Kotu=	137.50	m
Q1=	5.79	
tC	25.00	C
nu=	9.068E-07	m^2/sec
L:=	600.00	m
D=	2000.00	mm
V=	1.84	m/s
eps=	0.00030	
Re=	4.06497E+06	
f=	0.017	
V2/(2*g)=	0.17	
hlfriction	0.90	m
Kgiris=	0.50	
Kçıkış=	1.00	
# of pipe	2.00	
Qpipe=	5.79	m^3/s
Dpipe=	2.00	m
Vpipe=	1.84	m/s
K for Butterfly	0.70	
K for Gate Valve	0.19	
Chosen K for the valve	0.19	
Valve HL	0.29	m

2.00 m

1. Dagıtım Yapısı - Muradiye

Tesis Giriş Kotu=	138.87	m
Q1=	5.79	
tC	25	C
nu=	9.068E-07	m^2/s
L:=	600	m
D=	2000	mm
V=	1.84	m/s
eps=	0.00030	
Re=	4.06497E+06	
f=	0.017	
V2/(2*g)=	0.17	
hl	0.90	m

2.00 m

B.Ön Ozon Temas Tankı

tr	6.22	min	
Volume	4319.44	m^3	
# of tanks	3.00		
Q per tank	333333	m^3/day	3.86 m^3/sec
Volume of each tank	1440	m^3	
Height of water	6.00	m	
Clear Space above water	1.50		
Height of tank	0.00	m	
Area of the tank	240	m^2	
L/W ratio	1.62		
Width of the tank	12.18	m	12.00 m
Length of the tank	19.70	m	20.00 m

RUN

Head Loss Calculations

Free Fall HL

Elavation at the effluent channel	139.77	m
Distance of free fall	0.15	m
Effluent weir level	139.92	m
Critical depth	21.92	cm

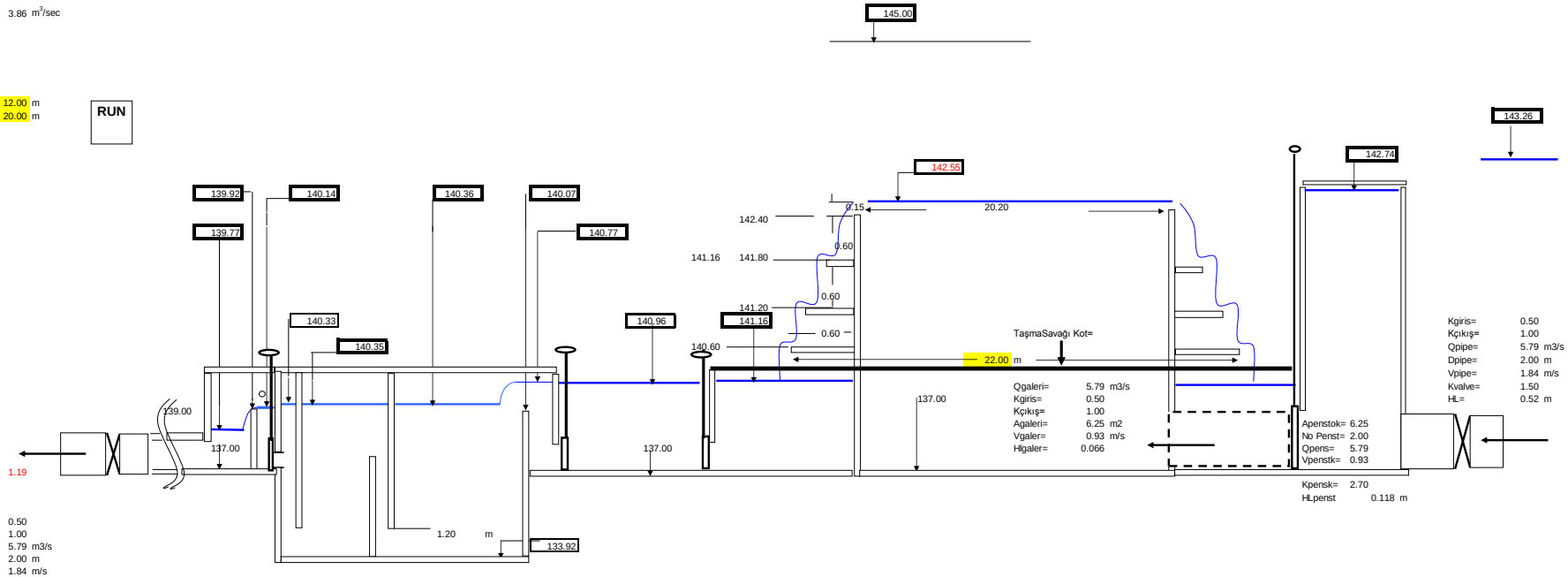
Penstock HL

Penstock K	2.70	
penstock size,m' W=H	1.80	m
Penstock Area	3.24	m^2
velocity tru penstock	1.19	m/s
v2/2g=	0.07	m
HL penstock=	0.20	m

Baffle HLs

Flow Area	1.20	m
Flow area under baffle	14.40	m^2
Velocity through the baffle	0.27	m/sec
Head Loss tru Submrgd Orifice	0.01	m
Head loss due to direction change	0.01	m
Total baffle HL	0.02	
HL due to submerged weir	0.40	m
Total head loss=	1.19	m
Ozon Chamber Entrance Elavatn	140.96	m

1.19



Kgiris= 0.50
Kçıkış= 1.00
Qpipe= 5.79 m3/s
Dpipe= 2.00 m
Vpipe= 1.84 m/s
Kvalve= 0.19
HL= 0.29 m