

HYDROLOGY STUDY					
Title	Symbol	Value	Units	Alt. Value	Alt. Units
Average Annual Daily Flow	Q	140.00	MGD		
	Q	140,000,000.00	GPD	529,957.65	m ³ /day
Average Available Flow	Qavg	70,000,000.00	GPD	264,978.82	m ³ /day
Maximum Average Available Flow	Qmax	140,000,000.00	GPD	529,957.65	m ³ /day
Minimum Average Available Flow	Qmin	35,000,000.00	GPD	132,489.41	m ³ /day
Loading	L	43,834,875.48	kg/d		
Length of Basin Platform	Ltotal	384.00	ft		
Width of Basin Platform	Wtotal	160.00	ft		
Total Area of Basin Platform	Atotal	61,440.00	ft ²		
Distance Between Basins	Db	12.00	ft		
Distance from Platform to Basins	Dp	8.00	ft		
Length of One Basin	Lb	144.00	ft		
Width of One Basin	Wb	50.00	ft		
Surface Area of One Basin	Ab	7,200.00	ft ²		
Discharge Coefficient	Cd	0.60	unitless		
Velocity Through Screen Openings	Vb	0.80	m/s		
Approach Velocity	Va	0.70	m/s		
Gravitational Acceleration	g	9.81	m/s ²		
Title	Symbol	Value	Units		
Observed Concentraion of MNPs	Co	100,000.00	MNPs/m³		
Estimated Weight of MNPs	M	1.65	g/MNP		
Concentration of MNPs	C	165,427.84	g/m³		
Peak Hourly Flow	Qhourly	5,833,333.33	gallons/hour		
Overflow Rate (Average Flow)	ORavg	1,620.37	gallons/ft²-day		
Overflow Rate (Peak Flow)	ORmax	3,240.74	gallons/ft²-day		
Weir Loading Rates (Average Flow)	WLRavg	81,018.52	gallons/ft-day		
Weir Loading Rates (Peak Flow)	WLRmax	162,037.04	gallons/ft-day		
Head Loss	hL	0.01	ft		