



SEDIMENT BASIN DESIGN DATA SHEET

COMPANY		Application/Permit No.	
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BASIN NO.		NPDES No.		Latitude		Longitude	
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GENERAL INFORMATION			
Hazard Classification			
Total Drainage Area (acres)		Design Flow (cfs)	
Total Disturbed Drainage Area (acres)		Design Storm Event (year/hour)	
Total Disturbed Area to be Treated by Basin (acres)			
Required Basin Volume ¹ (ac-ft)		Required Sediment Volume ² (ac-ft)	
Basin Volume Provided (ac-ft)		Sediment Volume Provided (ac-ft)	

BASIN GEOMETRY					
	Bottom	Sediment Volume Provided	Basin Volume Provided	Emergency Spillway	Top
Elevation (ft.)					
Area (ft)					

PRINCIPAL SPILLWAY (if applicable)					
Pipe Diameter (in.)		Pipe Length (ft.)		Pipe Inlet Elevation (ft.)	Slope %
Riser Diameter (in.)		Height of Riser ³ (ft.)		Top of Riser Elevation (ft.)	Hp ⁴ (ft.)
Type of Base			Type of Trash Rack & Anti-vortex device		

EMERGENCY SPILLWAY (if applicable)					
Hp ⁴ (ft.)		Bottom Width (ft.)		Side Slopes (H:V)	
Design Velocity (fps)			Type of Lining		

¹ (0.125 X disturbed area in acres)
² (0.075 X disturbed area in acres)
³ Base to top of riser
⁴ Height of water in pool (head) above spillway

EXIT CHANNEL (if applicable)				
Slope (%)		Bottom Width (ft.)		Side Slopes (H:V)
Flow Depth (ft.)		Freeboard (ft.)		Total Depth Exit Channel (ft.)
Design Velocity (fps)		Type of Lining		

EMBANKMENT (if applicable)			
Top of Embankment Elevation ⁵ (ft.)		Constructed Top of Embankment Elevation ⁶ (ft.)	

COMMENTS

⁵ Top of Embankment Elevation = Emergency Spillway Elevation + Hp + Freeboard (1 ft. minimum)

⁶ Constructed Top of Embankment = Top of Embankment Elevation + allowance for settlement (5% minimum)