

Infiltration Basin Worksheet

Design Point:	1						
Enter Site Data For Drainage Area to be Treated by Practice							
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft ³)	Precipitation (in)	Description
1	2.51	1.16	0.46	0.47	3820.76	0.90	Infiltration Basin
Enter Impervious Area Reduced by Disconnection of Rooftops		0.22	37%	0.39	3,174	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.					596	ft ³	
Pretreatment Techniques to Prevent Clogging							
Infiltration Rate			10.00	in/hour	Okay		
Pretreatment Sizing			100	% WQv	25% minimum; 50% if >2 in/hr 100% if >5in/hour		
Pretreatment Required Volume			3,770	ft ³			
Pretreatment Provided			3,774	ft ³			
Pretreatment Techniques utilized			<i>Sedimentation Basin</i>				
Size An Infiltration Basin							
Design Volume	3,770	ft ³	WQv				
Basal Area Required	1,257	ft ²	<i>Infiltration practices shall be designed to exfiltrate the entire WQv through the floor of each practice.</i>				
Basal Area Provided	2,407	ft ²					
Design Depth	3.00	ft					
Volume Provided	7,221	ft ³	<i>Storage Volume provided in infiltration basin area (not including pretreatment.</i>				
Determine Runoff Reduction							
RRv	3,770	ft³	<i>90% of the storage provided in the basin or WQv whichever is smaller</i>				
Volume Treated	0	ft ³	<i>This is the portion of the WQv that is not reduced/infiltrated</i>				
Sizing v	OK		<i>The infiltration basin must provide storage equal to or greater than the WQv of the contributing area.</i>				