

Worksheet
Worksheet for Circular Channel

Project Description	
Project File	untitled.fm2
Worksheet	Culverts
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.010000	ft/ft
Depth	4.00	ft
Diameter	48.00	in

Results		
Discharge	143.64	cfs
Flow Area	12.57	ft ²
Wetted Perimeter	12.57	ft
Top Width	0.12e-6	ft
Critical Depth	3.54	ft
Percent Full	100.00	
Critical Slope	0.008934	ft/ft
Velocity	11.43	ft/s
Velocity Head	2.03	ft
Specific Energy	6.03	ft
Froude Number	0.2e-3	
Maximum Discharge	154.51	cfs
Full Flow Capacity	143.64	cfs
Full Flow Slope	0.010000	ft/ft
Flow is subcritical.		
