

Worksheet for DON1-H4

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.500 %
Discharge	81.00 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00.00	2.22
0+06.00	0.22
0+17.00	0.00
0+36.00	0.38
0+46.00	0.18
0+52.00	2.18
0+54.00	2.18

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00.00, 2.22)	(0+54.00, 2.18)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	0.68 ft
Roughness Coefficient	0.016
Elevation	0.68 ft
Elevation Range	0.00 to 2.22 ft
Flow Area	20.3 ft ²
Wetted Perimeter	43.05 ft
Hydraulic Radius	0.47 ft
Top Width	42.89 ft
Normal Depth	0.68 ft
Critical Depth	0.69 ft
Critical Slope	0.479 %
Velocity	3.98 ft/s
Velocity Head	0.25 ft
Specific Energy	0.93 ft

Worksheet for DON1-H4

Results	
Froude Number	1.019
Flow Type	Supercritical

GVF Input Data	
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.68 ft
Critical Depth	0.69 ft
Channel Slope	0.500 %
Critical Slope	0.479 %

Cross Section for DON1-H4

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.500 %
Normal Depth	0.68 ft
Discharge	81.00 cfs

