Engineeering Division 44 E. Downer Place Aurora, IL
phone (630) 256-3200 fax (630) 256-3209

1-14a

100 Year Modified Rational Method for Stormwater Management Worksheet

Project Number: 0

Example Only

Actual Form should be produced from 1-0 Excel Worksheet

otal/A = 0.00

*1.25 **0.00**

be greater than 1.0

Total	-	Total	0.00	

Release Rate Qr (0.1 cfs/acre) = **0** cfs

Qr is determined by multiplying the Tributary Area by the allowable release rate

Storage Volume Calculation

Storm Duration	Rain Intensity	Runoff Rate	Release Rate	Storage Rate	Storage Required
(hours)	(in/hr)	(cfs)	(cfs)	(cfs)	acre-ft
t	I	$Q=C_f*I*A$	Q_r	$Q_s=Q-Q_r$	$Q_s*t/12$
1	3.95	0.00	0.00	0.00	0.00
2	2.48	0.00	0.00	0.00	0.00
3	1.79	0.00	0.00	0.00	0.00
4	1.44	0.00	0.00	0.00	0.00
5	1.21	0.00	0.00	0.00	0.00
6	1.05	0.00	0.00	0.00	0.00
8	0.83	0.00	0.00	0.00	0.00
10	0.69	0.00	0.00	0.00	0.00
12	0.61	0.00	0.00	0.00	0.00
15	0.51	0.00	0.00	0.00	0.00
18	0.43	0.00	0.00	0.00	0.00
21	0.39	0.00	0.00	0.00	0.00
24	0.35	0.00	0.00	0.00	0.00

Required Storage: **0.00** acre-ft

Required Storage for Indian Creek and Blackberry Creek Watersheds multiply by 1.1X Acre-ft (increase by 10%) = **0.00** acre-ft

This Calculator is for informational purposes only and all numbers are subject to verification by the Review Engineer.

Verified By: