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00001> 20 Metric units / ID Numbers OFF
00002> *****
00003> # SMWHEMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *****
00005> # Project Name: Mattamy Richmond Development
00006> # Project Number: 709(03)
00007> # Date : 2010/02/16
00008> # Modeller : Laura Pipkins, EIT
00009> # Company : J.F. Sabourin and Associates
00010> # License # : 2582634
00011> *****
00012> # 4 hour - 5 year Chicago Storm
00013> START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[005]
00014> ["CH4H005x.stm"]
00015> *%-----|
00016> READ STORM STORM_FILENAME=["STORM.001"]
00017> *%-----|
00018> DEFAULT VALUES ICASRDef=[1], read and print values
00019> DEFVAL_FILENAME=["Ottawa.val"]
00020> *%-----|
00021> *****
00022> # MATTAMY LANDS - RICHMOND DEVELOPMENT
00023> *****
00024> # PRE-DEV FLOWS TO VAN GAL DRRAIN SOUTH OF PERTH STREET FROM SUBJECT SITE
00025> *****
00026> CALIB NASHYD NHYD=["NOR_p1"], DT=[5]min, AREA=[30.72](ha),
DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00027> N=[3], TP=[1.6]hrs,
00028> RAINFALL=[ , , , ](mm/hr), END=-1
00029> *%-----|
00030> CALIB NASHYD NHYD=["STH_p1"], DT=[5]min, AREA=[80.20](ha),
00031> DWF=[0](cms), CN/C=[88], IA=[2.6](mm),
00032> N=[3], TP=[2.1]hrs,
00033> RAINFALL=[ , , , ](mm/hr), END=-1
00034> *%-----|
00035> ADD HYD NHYDeum=["PRE_p1"], NHYDs to add=["NOR_p1","STH_p1"]
00037> *%-----|
00038> *****
00039> # GENERATE FLOWS
00040> *****
00041> DESIGN STANDHYD NHYD=["MH103"], DT=[5](min), AREA=[1.98](ha),
00042> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00043> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00044> *%-----|
00045> DESIGN STANDHYD NHYD=["MH104"], DT=[5](min), AREA=[2.32](ha),
00046> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00047> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00048> *%-----|
00049> DESIGN STANDHYD NHYD=["MH105"], DT=[5](min), AREA=[0.88](ha),
00050> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00051> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00052> *%-----|
00053> DESIGN STANDHYD NHYD=["MH106"], DT=[5](min), AREA=[0.52](ha),
00054> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00055> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00056> *%-----|
00057> DESIGN STANDHYD NHYD=["MH107"], DT=[5](min), AREA=[3.11](ha),
00058> XIMP=[0.3], TIMP=[0.4], DWF=[0](cms), LOSS=[1],
00059> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00060> *%-----|
00061> DESIGN STANDHYD NHYD=["MH108"], DT=[5](min), AREA=[1.71](ha),
00062> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00063> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00064> *%-----|
00065> DESIGN STANDHYD NHYD=["MH109"], DT=[5](min), AREA=[1.79](ha),
00066> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00067> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00068> *%-----|
00069> DESIGN STANDHYD NHYD=["MH110"], DT=[5](min), AREA=[5.13](ha),
00070> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00071> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00072> *%-----|
00073> DESIGN STANDHYD NHYD=["MH111"], DT=[5](min), AREA=[6.72](ha),
00074> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00075> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00076> *%-----|
00077> DESIGN STANDHYD NHYD=["MH112"], DT=[5](min), AREA=[0.71](ha),
00078> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00079> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00080> *%-----|
00081> DESIGN STANDHYD NHYD=["MH113"], DT=[5](min), AREA=[3.16](ha),
00082> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00083> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00084> *%-----|
00085> DESIGN STANDHYD NHYD=["MH114"], DT=[5](min), AREA=[1.1](ha),
00086> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00087> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00088> *%-----|
00089> DESIGN STANDHYD NHYD=["MH115"], DT=[5](min), AREA=[1.32](ha),
00090> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00091> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00092> *%-----|
00093> DESIGN STANDHYD NHYD=["MH116"], DT=[5](min), AREA=[0.39](ha),
00094> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00095> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00096> *%-----|
00097> DESIGN STANDHYD NHYD=["MH117"], DT=[5](min), AREA=[0.29](ha),

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00098> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00099> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00100> *%-----|
00101> DESIGN STANDHYD NHYD=["MH118"], DT=[5](min), AREA=[0.2](ha),
00102> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00103> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00104> *%-----|
00105> DESIGN STANDHYD NHYD=["MH120"], DT=[5](min), AREA=[5.29](ha),
00106> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00107> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00108> *%-----|
00109> DESIGN STANDHYD NHYD=["MH122"], DT=[5](min), AREA=[1.69](ha),
00110> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00111> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00112> *%-----|
00113> DESIGN STANDHYD NHYD=["MH123"], DT=[5](min), AREA=[1.22](ha),
00114> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00115> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00116> *%-----|
00117> DESIGN STANDHYD NHYD=["MH124"], DT=[5](min), AREA=[2.64](ha),
00118> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00119> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00120> *%-----|
00121> DESIGN STANDHYD NHYD=["MH125"], DT=[5](min), AREA=[2.26](ha),
00122> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00123> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00124> *%-----|
00125> DESIGN STANDHYD NHYD=["MH126"], DT=[5](min), AREA=[2.66](ha),
00126> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00127> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00128> *%-----|
00129> DESIGN STANDHYD NHYD=["MH127"], DT=[5](min), AREA=[0.05](ha),
00130> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00131> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00132> *%-----|
00133> DESIGN STANDHYD NHYD=["MH132"], DT=[5](min), AREA=[1.39](ha),
00134> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00135> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00136> *%-----|
00137> DESIGN STANDHYD NHYD=["MH133"], DT=[5](min), AREA=[0.29](ha),
00138> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00139> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00140> *%-----|
00141> DESIGN STANDHYD NHYD=["MH134"], DT=[5](min), AREA=[4.65](ha),
00142> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00143> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00144> *%-----|
00145> DESIGN STANDHYD NHYD=["MH135"], DT=[5](min), AREA=[0.63](ha),
00146> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00147> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00148> *%-----|
00149> DESIGN STANDHYD NHYD=["MH136"], DT=[5](min), AREA=[0.51](ha),
00150> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00151> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00152> *%-----|
00153> DESIGN STANDHYD NHYD=["MH137"], DT=[5](min), AREA=[0.43](ha),
00154> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00155> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00156> *%-----|
00157> DESIGN STANDHYD NHYD=["MH138"], DT=[5](min), AREA=[0.63](ha),
00158> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00159> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00160> *%-----|
00161> DESIGN STANDHYD NHYD=["MH139"], DT=[5](min), AREA=[0.64](ha),
00162> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00163> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00164> *%-----|
00165> DESIGN STANDHYD NHYD=["MH140"], DT=[5](min), AREA=[0.54](ha),
00166> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00167> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00168> *%-----|
00169> DESIGN STANDHYD NHYD=["MH141"], DT=[5](min), AREA=[1.66](ha),
00170> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00171> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00172> *%-----|
00173> DESIGN STANDHYD NHYD=["MH142"], DT=[5](min), AREA=[1.52](ha),
00174> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00175> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00176> *%-----|
00177> DESIGN STANDHYD NHYD=["MH160"], DT=[5](min), AREA=[0.72](ha),
00178> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00179> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00180> *%-----|
00181> DESIGN STANDHYD NHYD=["MH161"], DT=[5](min), AREA=[0.32](ha),
00182> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00183> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00184> *%-----|
00185> DESIGN STANDHYD NHYD=["MH162"], DT=[5](min), AREA=[2.25](ha),
00186> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00187> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00188> *%-----|
00189> DESIGN STANDHYD NHYD=["MH163"], DT=[5](min), AREA=[4](ha),
00190> XIMP=[0.48], TIMP=[0.58], DWF=[0](cms), LOSS=[1],
00191> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00192> *%-----|
00193> DESIGN STANDHYD NHYD=["MH190"], DT=[5](min), AREA=[0.99](ha),
00194> XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],

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00195> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00196> *%-----|
00197> DESIGN STANDHYD NHYD=["MH191"], DT=[5](min), AREA=[0.55](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00198> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00199> *%-----|
00200> DESIGN STANDHYD NHYD=["MH192*"], DT=[5](min), AREA=[3.97](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00201> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00202> *%-----|
00203> DESIGN STANDHYD NHYD=["MH201*"], DT=[5](min), AREA=[1.01](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00206> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00207> *%-----|
00208> DESIGN STANDHYD NHYD=["MH202*"], DT=[5](min), AREA=[0.27](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00210> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00211> *%-----|
00212> DESIGN STANDHYD NHYD=["MH204*"], DT=[5](min), AREA=[1.69](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00214> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00215> *%-----|
00216> DESIGN STANDHYD NHYD=["MH205*"], DT=[5](min), AREA=[0.9](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00218> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00219> *%-----|
00220> DESIGN STANDHYD NHYD=["MH206*"], DT=[5](min), AREA=[1.63](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00222> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00223> *%-----|
00224> DESIGN STANDHYD NHYD=["MH207*"], DT=[5](min), AREA=[2.5](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00226> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00227> *%-----|
00228> DESIGN STANDHYD NHYD=["MH209*"], DT=[5](min), AREA=[2.89](ha),
XIMP=[0.16], TIMP=[0.26], DWF=[0](cms), LOSS=[1],
00230> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00231> *%-----|
00232> DESIGN STANDHYD NHYD=["MH209*"], DT=[5](min), AREA=[0.11](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00234> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00235> *%-----|
00236> DESIGN STANDHYD NHYD=["MH210*"], DT=[5](min), AREA=[2.74](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00238> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00239> *%-----|
00240> DESIGN STANDHYD NHYD=["MH211*"], DT=[5](min), AREA=[0.66](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00242> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00243> *%-----|
00244> DESIGN STANDHYD NHYD=["MH250*"], DT=[5](min), AREA=[2.76](ha),
XIMP=[0.34], TIMP=[0.44], DWF=[0](cms), LOSS=[1],
00246> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00247> *%-----|
00248> DESIGN STANDHYD NHYD=["MH251*"], DT=[5](min), AREA=[0.39](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00250> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00251> *%-----|
00252> DESIGN STANDHYD NHYD=["MH252*"], DT=[5](min), AREA=[0.8](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00254> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00255> *%-----|
00256> DESIGN STANDHYD NHYD=["MH255*"], DT=[5](min), AREA=[1.56](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00258> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00259> *%-----|
00260> DESIGN STANDHYD NHYD=["MH256*"], DT=[5](min), AREA=[1.13](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00262> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00263> *%-----|
00264> DESIGN STANDHYD NHYD=["MH257*"], DT=[5](min), AREA=[0.44](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00266> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00267> *%-----|
00268> DESIGN STANDHYD NHYD=["MH258*"], DT=[5](min), AREA=[2.52](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00270> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00271> *%-----|
00272> DESIGN STANDHYD NHYD=["MH259*"], DT=[5](min), AREA=[0.25](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00274> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00275> *%-----|
00276> DESIGN STANDHYD NHYD=["MH260*"], DT=[5](min), AREA=[4.6](ha),
XIMP=[0.21], TIMP=[0.31], DWF=[0](cms), LOSS=[1],
00278> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00279> *%-----|
00280> DESIGN STANDHYD NHYD=["MH264*"], DT=[5](min), AREA=[1.36](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00282> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00283> *%-----|
00284> DESIGN STANDHYD NHYD=["MH265*"], DT=[5](min), AREA=[0.96](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00286> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00287> *%-----|
00288> DESIGN STANDHYD NHYD=["MH266*"], DT=[5](min), AREA=[1.13](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00290> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00291> *%-----|

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00292> *%-----|
00293> DESIGN STANDHYD NHYD=["MH267*"], DT=[5](min), AREA=[0.18](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00295> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00296> *%-----|
00297> DESIGN STANDHYD NHYD=["MH268*"], DT=[5](min), AREA=[0.24](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00298> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00299> *%-----|
00300> DESIGN STANDHYD NHYD=["MH269*"], DT=[5](min), AREA=[0.26](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00302> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00303> *%-----|
00304> DESIGN STANDHYD NHYD=["MH270*"], DT=[5](min), AREA=[1.06](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00306> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00307> *%-----|
00308> DESIGN STANDHYD NHYD=["MH271*"], DT=[5](min), AREA=[1.19](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00310> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00311> *%-----|
00312> DESIGN STANDHYD NHYD=["MH272*"], DT=[5](min), AREA=[1.06](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00314> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00315> *%-----|
00316> DESIGN STANDHYD NHYD=["MH273*"], DT=[5](min), AREA=[1.21](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00318> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00319> *%-----|
00320> DESIGN STANDHYD NHYD=["MH274*"], DT=[5](min), AREA=[0.53](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00322> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00323> *%-----|
00324> DESIGN STANDHYD NHYD=["MH278*"], DT=[5](min), AREA=[3.4](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00327> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00328> *%-----|
00329> DESIGN STANDHYD NHYD=["MH279*"], DT=[5](min), AREA=[0.35](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00330> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00331> *%-----|
00332> DESIGN STANDHYD NHYD=["MH280*"], DT=[5](min), AREA=[0.56](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00334> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00335> *%-----|
00336> DESIGN STANDHYD NHYD=["MH281*"], DT=[5](min), AREA=[0.44](ha),
XIMP=[0.5], TIMP=[0.6], DWF=[0](cms), LOSS=[1],
00339> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00340> *%-----|
00341> DESIGN STANDHYD NHYD=["PND1"], DT=[5](min), AREA=[12.05](ha),
XIMP=[0.33], TIMP=[0.33], DWF=[0](cms), LOSS=[1],
00342> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00343> *%-----|
00344> DESIGN STANDHYD NHYD=["PND2*"], DT=[5](min), AREA=[2.75](ha),
XIMP=[0.45], TIMP=[0.45], DWF=[0](cms), LOSS=[1],
00346> SLOPE=[0.5](%), RAINFALL=[ , , , ](mm/hr), END=-1
00347> *%-----|
00348> *%-----|
00349> *%*****|
00350> *# SPLIT MAJOR AND MINOR SYSTEM FLOWS|
00351> *%*****|
00352> COMPUTE DUALHYD NHYDIn=["MH103"], CINLET=[0.314](cms), NINLET=[1],
MaJNHYD=["103mj"]
MinNHYD=["103"]
TMJSTO=[0](cu-m)
00356> *%-----|
00357> COMPUTE DUALHYD NHYDIn=["MH104*"], CINLET=[0.336](cms), NINLET=[1],
MaJNHYD=["104mj"]
MinNHYD=["104*"]
TMJSTO=[0](cu-m)
00361> *%-----|
00362> COMPUTE DUALHYD NHYDIn=["MH105*"], CINLET=[0.143](cms), NINLET=[1],
MaJNHYD=["105mj"]
MinNHYD=["105*"]
TMJSTO=[0](cu-m)
00366> *%-----|
00367> COMPUTE DUALHYD NHYDIn=["MH106*"], CINLET=[0.085](cms), NINLET=[1],
MaJNHYD=["106mj"]
MinNHYD=["106*"]
TMJSTO=[0](cu-m)
00370> *%-----|
00371> *%-----|
00372> COMPUTE DUALHYD NHYDIn=["MH107*"], CINLET=[0.305](cms), NINLET=[1],
MaJNHYD=["107mj"]
MinNHYD=["107*"]
TMJSTO=[0](cu-m)
00374> *%-----|
00375> *%-----|
00376> *%-----|
00377> COMPUTE DUALHYD NHYDIn=["MH108*"], CINLET=[0.272](cms), NINLET=[1],
MaJNHYD=["108mj"]
MinNHYD=["108*"]
TMJSTO=[0](cu-m)
00381> *%-----|
00382> COMPUTE DUALHYD NHYDIn=["MH109*"], CINLET=[0.285](cms), NINLET=[1],
MaJNHYD=["109mj"]
MinNHYD=["109*"]
TMJSTO=[0](cu-m)
00385> *%-----|
00386> *%-----|
00387> COMPUTE DUALHYD NHYDIn=["MH110*"], CINLET=[0.744](cms), NINLET=[1],
MaJNHYD=["110mj"]
00388> *%-----|

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00389> MinNHYD=["110"]
00390> TMJSTO=[0](cu-m)
00391> *%-----
00392> COMPUTE DUALHYD NHYDln=["MH111"], CINLET=[0.957](cms), NINLET=[1],
00393> MaJNHYD=["111mj"]
00394> MinNHYD=["111"]
00395> TMJSTO=[0](cu-m)
00396> *%-----
00397> COMPUTE DUALHYD NHYDln=["MH112"], CINLET=[0.116](cms), NINLET=[1],
00398> MaJNHYD=["112mj"]
00399> MinNHYD=["112"]
00400> TMJSTO=[0](cu-m)
00401> *%-----
00402> COMPUTE DUALHYD NHYDln=["MH113"], CINLET=[0.492](cms), NINLET=[1],
00403> MaJNHYD=["113mj"]
00404> MinNHYD=["113"]
00405> TMJSTO=[0](cu-m)
00406> *%-----
00407> COMPUTE DUALHYD NHYDln=["MH114"], CINLET=[0.178](cms), NINLET=[1],
00408> MaJNHYD=["114mj"]
00409> MinNHYD=["114"]
00410> TMJSTO=[0](cu-m)
00411> *%-----
00412> COMPUTE DUALHYD NHYDln=["MH115"], CINLET=[0.212](cms), NINLET=[1],
00413> MaJNHYD=["115mj"]
00414> MinNHYD=["115"]
00415> TMJSTO=[0](cu-m)
00416> *%-----
00417> COMPUTE DUALHYD NHYDln=["MH116"], CINLET=[0.064](cms), NINLET=[1],
00418> MaJNHYD=["116mj"]
00419> MinNHYD=["116"]
00420> TMJSTO=[0](cu-m)
00421> *%-----
00422> COMPUTE DUALHYD NHYDln=["MH117"], CINLET=[0.048](cms), NINLET=[1],
00423> MaJNHYD=["117mj"]
00424> MinNHYD=["117"]
00425> TMJSTO=[0](cu-m)
00426> *%-----
00427> COMPUTE DUALHYD NHYDln=["MH118"], CINLET=[0.033](cms), NINLET=[1],
00428> MaJNHYD=["118mj"]
00429> MinNHYD=["118"]
00430> TMJSTO=[0](cu-m)
00431> *%-----
00432> COMPUTE DUALHYD NHYDln=["MH120"], CINLET=[0.648](cms), NINLET=[1],
00433> MaJNHYD=["120mj"]
00434> MinNHYD=["120"]
00435> TMJSTO=[0](cu-m)
00436> *%-----
00437> COMPUTE DUALHYD NHYDln=["MH122"], CINLET=[0.27](cms), NINLET=[1],
00438> MaJNHYD=["122mj"]
00439> MinNHYD=["122"]
00440> TMJSTO=[0](cu-m)
00441> *%-----
00442> COMPUTE DUALHYD NHYDln=["MH123"], CINLET=[0.197](cms), NINLET=[1],
00443> MaJNHYD=["123mj"]
00444> MinNHYD=["123"]
00445> TMJSTO=[0](cu-m)
00446> *%-----
00447> COMPUTE DUALHYD NHYDln=["MH124"], CINLET=[0.414](cms), NINLET=[1],
00448> MaJNHYD=["124mj"]
00449> MinNHYD=["124"]
00450> TMJSTO=[0](cu-m)
00451> *%-----
00452> COMPUTE DUALHYD NHYDln=["MH125"], CINLET=[0.289](cms), NINLET=[1],
00453> MaJNHYD=["125mj"]
00454> MinNHYD=["125"]
00455> TMJSTO=[0](cu-m)
00456> *%-----
00457> COMPUTE DUALHYD NHYDln=["MH126"], CINLET=[0.417](cms), NINLET=[1],
00458> MaJNHYD=["126mj"]
00459> MinNHYD=["126"]
00460> TMJSTO=[0](cu-m)
00461> *%-----
00462> COMPUTE DUALHYD NHYDln=["MH127"], CINLET=[0.008](cms), NINLET=[1],
00463> MaJNHYD=["127mj"]
00464> MinNHYD=["127"]
00465> TMJSTO=[0](cu-m)
00466> *%-----
00467> COMPUTE DUALHYD NHYDln=["MH132"], CINLET=[0.223](cms), NINLET=[1],
00468> MaJNHYD=["132mj"]
00469> MinNHYD=["132"]
00470> TMJSTO=[0](cu-m)
00471> *%-----
00472> COMPUTE DUALHYD NHYDln=["MH133"], CINLET=[0.048](cms), NINLET=[1],
00473> MaJNHYD=["133mj"]
00474> MinNHYD=["133"]
00475> TMJSTO=[0](cu-m)
00476> *%-----
00477> COMPUTE DUALHYD NHYDln=["MH134"], CINLET=[0.678](cms), NINLET=[1],
00478> MaJNHYD=["134mj"]
00479> MinNHYD=["134"]
00480> TMJSTO=[0](cu-m)
00481> *%-----
00482> COMPUTE DUALHYD NHYDln=["MH135"], CINLET=[0.103](cms), NINLET=[1],
00483> MaJNHYD=["135mj"]
00484> MinNHYD=["135"]
00485> TMJSTO=[0](cu-m)

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00486> *%-----
00487> COMPUTE DUALHYD NHYDln=["MH136"], CINLET=[0.084](cms), NINLET=[1],
00488> MaJNHYD=["136mj"]
00489> MinNHYD=["136"]
00490> TMJSTO=[0](cu-m)
00491> *%-----
00492> COMPUTE DUALHYD NHYDln=["MH137"], CINLET=[0.071](cms), NINLET=[1],
00493> MaJNHYD=["137mj"]
00494> MinNHYD=["137"]
00495> TMJSTO=[0](cu-m)
00496> *%-----
00497> COMPUTE DUALHYD NHYDln=["MH138"], CINLET=[0.103](cms), NINLET=[1],
00498> MaJNHYD=["138mj"]
00499> MinNHYD=["138"]
00500> TMJSTO=[0](cu-m)
00501> *%-----
00502> COMPUTE DUALHYD NHYDln=["MH139"], CINLET=[0.105](cms), NINLET=[1],
00503> MaJNHYD=["139mj"]
00504> MinNHYD=["139"]
00505> TMJSTO=[0](cu-m)
00506> *%-----
00507> COMPUTE DUALHYD NHYDln=["MH140"], CINLET=[0.089](cms), NINLET=[1],
00508> MaJNHYD=["140mj"]
00509> MinNHYD=["140"]
00510> TMJSTO=[0](cu-m)
00511> *%-----
00512> COMPUTE DUALHYD NHYDln=["MH141"], CINLET=[0.265](cms), NINLET=[1],
00513> MaJNHYD=["141mj"]
00514> MinNHYD=["141"]
00515> TMJSTO=[0](cu-m)
00516> *%-----
00517> COMPUTE DUALHYD NHYDln=["MH142"], CINLET=[0.244](cms), NINLET=[1],
00518> MaJNHYD=["142mj"]
00519> MinNHYD=["142"]
00520> TMJSTO=[0](cu-m)
00521> *%-----
00522> COMPUTE DUALHYD NHYDln=["MH160"], CINLET=[0.118](cms), NINLET=[1],
00523> MaJNHYD=["160mj"]
00524> MinNHYD=["160"]
00525> TMJSTO=[0](cu-m)
00526> *%-----
00527> COMPUTE DUALHYD NHYDln=["MH161"], CINLET=[0.053](cms), NINLET=[1],
00528> MaJNHYD=["161mj"]
00529> MinNHYD=["161"]
00530> TMJSTO=[0](cu-m)
00531> *%-----
00532> COMPUTE DUALHYD NHYDln=["MH162"], CINLET=[0.356](cms), NINLET=[1],
00533> MaJNHYD=["162mj"]
00534> MinNHYD=["162"]
00535> TMJSTO=[0](cu-m)
00536> *%-----
00537> COMPUTE DUALHYD NHYDln=["MH163"], CINLET=[0.568](cms), NINLET=[1],
00538> MaJNHYD=["163mj"]
00539> MinNHYD=["163"]
00540> TMJSTO=[0](cu-m)
00541> *%-----
00542> COMPUTE DUALHYD NHYDln=["MH190"], CINLET=[0.161](cms), NINLET=[1],
00543> MaJNHYD=["190mj"]
00544> MinNHYD=["190"]
00545> TMJSTO=[0](cu-m)
00546> *%-----
00547> COMPUTE DUALHYD NHYDln=["MH191"], CINLET=[0.09](cms), NINLET=[1],
00548> MaJNHYD=["191mj"]
00549> MinNHYD=["191"]
00550> TMJSTO=[0](cu-m)
00551> *%-----
00552> COMPUTE DUALHYD NHYDln=["MH192"], CINLET=[0.584](cms), NINLET=[1],
00553> MaJNHYD=["192mj"]
00554> MinNHYD=["192"]
00555> TMJSTO=[0](cu-m)
00556> *%-----
00557> COMPUTE DUALHYD NHYDln=["MH201"], CINLET=[0.164](cms), NINLET=[1],
00558> MaJNHYD=["201mj"]
00559> MinNHYD=["201"]
00560> TMJSTO=[0](cu-m)
00561> *%-----
00562> COMPUTE DUALHYD NHYDln=["MH202"], CINLET=[0.045](cms), NINLET=[1],
00563> MaJNHYD=["202mj"]
00564> MinNHYD=["202"]
00565> TMJSTO=[0](cu-m)
00566> *%-----
00567> COMPUTE DUALHYD NHYDln=["MH204"], CINLET=[0.27](cms), NINLET=[1],
00568> MaJNHYD=["204mj"]
00569> MinNHYD=["204"]
00570> TMJSTO=[0](cu-m)
00571> *%-----
00572> COMPUTE DUALHYD NHYDln=["MH205"], CINLET=[0.146](cms), NINLET=[1],
00573> MaJNHYD=["205mj"]
00574> MinNHYD=["205"]
00575> TMJSTO=[0](cu-m)
00576> *%-----
00577> COMPUTE DUALHYD NHYDln=["MH206"], CINLET=[0.261](cms), NINLET=[1],
00578> MaJNHYD=["206mj"]
00579> MinNHYD=["206"]
00580> TMJSTO=[0](cu-m)
00581> *%-----
00582> COMPUTE DUALHYD NHYDln=["MH207"], CINLET=[0.393](cms), NINLET=[1],

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00583> MaJNHVD=["207m"]
00584> MinNHVD=["207*"]
00585> TMJSTO=[0](cu-m)
00586> *%-----
00587> COMPUTE DUALHYD NHYDln=["MH208*"], CINLET=[0.18](cms), NINLET=[1],
MaJNHVD=["208m"]
00588> MinNHVD=["208*"]
00589> TMJSTO=[0](cu-m)
00590> *%-----
00592> COMPUTE DUALHYD NHYDln=["MH209*"], CINLET=[0.018](cms), NINLET=[1],
MaJNHVD=["209m"]
00593> MinNHVD=["209*"]
00594> TMJSTO=[0](cu-m)
00595> *%-----
00597> COMPUTE DUALHYD NHYDln=["MH210*"], CINLET=[0.429](cms), NINLET=[1],
MaJNHVD=["210m"]
00598> MinNHVD=["210*"]
00599> TMJSTO=[0](cu-m)
00600> *%-----
00602> COMPUTE DUALHYD NHYDln=["MH211*"], CINLET=[0.108](cms), NINLET=[1],
MaJNHVD=["211m"]
00603> MinNHVD=["211*"]
00604> TMJSTO=[0](cu-m)
00605> *%-----
00607> COMPUTE DUALHYD NHYDln=["MH250*"], CINLET=[0.3](cms), NINLET=[1],
MaJNHVD=["250m"]
00608> MinNHVD=["250*"]
00609> TMJSTO=[0](cu-m)
00610> *%-----
00613> COMPUTE DUALHYD NHYDln=["MH251*"], CINLET=[0.064](cms), NINLET=[1],
MaJNHVD=["251m"]
00614> MinNHVD=["251*"]
00615> TMJSTO=[0](cu-m)
00616> *%-----
00617> COMPUTE DUALHYD NHYDln=["MH252*"], CINLET=[0.13](cms), NINLET=[1],
MaJNHVD=["252m"]
00618> MinNHVD=["252*"]
00619> TMJSTO=[0](cu-m)
00620> *%-----
00622> COMPUTE DUALHYD NHYDln=["MH255*"], CINLET=[0.25](cms), NINLET=[1],
MaJNHVD=["255m"]
00623> MinNHVD=["255*"]
00624> TMJSTO=[0](cu-m)
00625> *%-----
00627> COMPUTE DUALHYD NHYDln=["MH256*"], CINLET=[0.183](cms), NINLET=[1],
MaJNHVD=["256m"]
00628> MinNHVD=["256*"]
00629> TMJSTO=[0](cu-m)
00630> *%-----
00632> COMPUTE DUALHYD NHYDln=["MH257*"], CINLET=[0.072](cms), NINLET=[1],
MaJNHVD=["257m"]
00633> MinNHVD=["257*"]
00634> TMJSTO=[0](cu-m)
00635> *%-----
00637> COMPUTE DUALHYD NHYDln=["MH258*"], CINLET=[0.396](cms), NINLET=[1],
MaJNHVD=["258m"]
00638> MinNHVD=["258*"]
00639> TMJSTO=[0](cu-m)
00640> *%-----
00642> COMPUTE DUALHYD NHYDln=["MH259*"], CINLET=[0.041](cms), NINLET=[1],
MaJNHVD=["259m"]
00643> MinNHVD=["259*"]
00644> TMJSTO=[0](cu-m)
00645> *%-----
00647> COMPUTE DUALHYD NHYDln=["MH260*"], CINLET=[0.338](cms), NINLET=[1],
MaJNHVD=["260m"]
00648> MinNHVD=["260*"]
00649> TMJSTO=[0](cu-m)
00650> *%-----
00652> COMPUTE DUALHYD NHYDln=["MH264*"], CINLET=[0.219](cms), NINLET=[1],
MaJNHVD=["264m"]
00653> MinNHVD=["264*"]
00654> TMJSTO=[0](cu-m)
00655> *%-----
00657> COMPUTE DUALHYD NHYDln=["MH265*"], CINLET=[0.156](cms), NINLET=[1],
MaJNHVD=["265m"]
00658> MinNHVD=["265*"]
00659> TMJSTO=[0](cu-m)
00660> *%-----
00662> COMPUTE DUALHYD NHYDln=["MH266*"], CINLET=[0.183](cms), NINLET=[1],
MaJNHVD=["266m"]
00663> MinNHVD=["266*"]
00664> TMJSTO=[0](cu-m)
00665> *%-----
00667> COMPUTE DUALHYD NHYDln=["MH267*"], CINLET=[0.03](cms), NINLET=[1],
MaJNHVD=["267m"]
00668> MinNHVD=["267*"]
00669> TMJSTO=[0](cu-m)
00670> *%-----
00672> COMPUTE DUALHYD NHYDln=["MH268*"], CINLET=[0.04](cms), NINLET=[1],
MaJNHVD=["268m"]
00673> MinNHVD=["268*"]
00674> TMJSTO=[0](cu-m)
00675> *%-----
00677> COMPUTE DUALHYD NHYDln=["MH269*"], CINLET=[0.0429](cms), NINLET=[1],
MaJNHVD=["269m"]
00678> MinNHVD=["269*"]
00679>

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00680> TMJSTO=[0](cu-m)
00681> *%-----
00682> COMPUTE DUALHYD NHYDln=["MH270*"], CINLET=[0.172](cms), NINLET=[1],
MaJNHVD=["270m"]
00683> MinNHVD=["270*"]
00684> TMJSTO=[0](cu-m)
00685> *%-----
00687> COMPUTE DUALHYD NHYDln=["MH271*"], CINLET=[0.192](cms), NINLET=[1],
MaJNHVD=["271m"]
00688> MinNHVD=["271*"]
00689> TMJSTO=[0](cu-m)
00690> *%-----
00692> COMPUTE DUALHYD NHYDln=["MH272*"], CINLET=[0.172](cms), NINLET=[1],
MaJNHVD=["272m"]
00693> MinNHVD=["272*"]
00694> TMJSTO=[0](cu-m)
00695> *%-----
00697> COMPUTE DUALHYD NHYDln=["MH273*"], CINLET=[0.195](cms), NINLET=[1],
MaJNHVD=["273m"]
00698> MinNHVD=["273*"]
00699> TMJSTO=[0](cu-m)
00700> *%-----
00702> COMPUTE DUALHYD NHYDln=["MH274*"], CINLET=[0.087](cms), NINLET=[1],
MaJNHVD=["274m"]
00703> MinNHVD=["274*"]
00704> TMJSTO=[0](cu-m)
00705> *%-----
00707> COMPUTE DUALHYD NHYDln=["MH278*"], CINLET=[0.504](cms), NINLET=[1],
MaJNHVD=["278m"]
00708> MinNHVD=["278*"]
00709> TMJSTO=[0](cu-m)
00710> *%-----
00712> COMPUTE DUALHYD NHYDln=["MH279*"], CINLET=[0.058](cms), NINLET=[1],
MaJNHVD=["279m"]
00713> MinNHVD=["279*"]
00714> TMJSTO=[0](cu-m)
00715> *%-----
00716> COMPUTE DUALHYD NHYDln=["MH280*"], CINLET=[0.092](cms), NINLET=[1],
MaJNHVD=["280m"]
00717> MinNHVD=["280*"]
00718> TMJSTO=[0](cu-m)
00719> *%-----
00722> COMPUTE DUALHYD NHYDln=["MH281*"], CINLET=[0.072](cms), NINLET=[1],
MaJNHVD=["281m"]
00723> MinNHVD=["281*"]
00724> TMJSTO=[0](cu-m)
00725> *%-----
00726> *%-----
00727> *%*****
00728> *# SAVE MINOR SYSTEM FLOWS
00729> *#*****
00730> SAVE HYD NHVD=["103*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["103*"]
00731> *%-----
00732> *%-----
00733> SAVE HYD NHVD=["104*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["104*"]
00734> *%-----
00735> *%-----
00736> SAVE HYD NHVD=["105*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["105*"]
00737> *%-----
00738> *%-----
00739> SAVE HYD NHVD=["106*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["106*"]
00740> *%-----
00741> *%-----
00742> SAVE HYD NHVD=["107*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["107*"]
00743> *%-----
00744> *%-----
00745> SAVE HYD NHVD=["108*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["108*"]
00746> *%-----
00747> *%-----
00748> SAVE HYD NHVD=["109*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["109*"]
00749> *%-----
00750> *%-----
00751> SAVE HYD NHVD=["110*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["110*"]
00752> *%-----
00753> *%-----
00754> SAVE HYD NHVD=["111*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["111*"]
00755> *%-----
00756> *%-----
00757> SAVE HYD NHVD=["112*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["112*"]
00758> *%-----
00759> *%-----
00760> SAVE HYD NHVD=["113*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["113*"]
00761> *%-----
00762> *%-----
00763> SAVE HYD NHVD=["114*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["114*"]
00764> *%-----
00765> *%-----
00766> SAVE HYD NHVD=["115*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["115*"]
00767> *%-----
00768> *%-----
00769> SAVE HYD NHVD=["116*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["116*"]
00770> *%-----
00771> *%-----
00772> SAVE HYD NHVD=["117*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["117*"]
00773> *%-----
00774> *%-----
00775> SAVE HYD NHVD=["118*"], # OF PCYCLES=[-1], ICASEsh=[1]
HYD_COMMENT=["118*"]
00776>

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00001> 2 Metric units
00002> #*****
00003> # SWHMEMO Ver:5.02/Jan 2001 <BETA> // INPUT DATA FILE
00004> #*****
00005> # Project Name: [Richmond FPM] Project Number: [709]
00006> # Date : 04-21-2009
00007> # Revised : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
00008> # 02-16-2010; 03-04-2010 (LP)
00009> # Modeller : [Bryan Willcott B.Eng.]
00010> # Company : J.F. Sabourin and Associates
00011> # License # : 3410370
00012> #*****
00013> #*****
00015> # [BW] May 27, 2009
00016> # This model has been updated using revised values for Tp. Previous versions
00017> # of this model used a calculated Tp=0.6Tc. This model used a calculated
00018> # Tp=0.67Tc.
00019> #*****
00020> # [BW] July 22, 2009
00021> # This model has been revised to include "existing" cross section information
00022> # received from Robinson Consultants. The Cross section revised in the model
00023> # is Sec 5.2 (channel receiving flow from "arbutck"). Also, channel and
00024> # floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00025> #*****
00026> # [BW] August 6, 2009
00027> # This model has been revised to include cross section information
00028> # from Robinson Consultants Engineer's Report July 2003. The cross
00029> # section revised in the model is Sec 5.1. Cross sections Sec 1.03
00030> # and Sec 5.3 have also been revised
00031> #*****
00032> # [BW] August 31, 2009
00033> # Model updated to include the proposed DSEL berm. This affects the geometry
00034> # of Route Channel Sect 5.2 located on the Arbutck drain. Route Channels 5.2
00035> # and 1.03 have also been revised to reduce the number of values in the
00036> # x-y matrix.
00037> #*****
00038> # [BW] November 16, 2009
00039> # Model updated to include revised CN and Tp values subsequent to review of
00040> # memo received from ARECOM on Oct. 2, 2009
00041> #*****
00042> # [BW] February 16, 2010
00043> # Model updated to check cross sections proposed to convey flow from VG-6,
00044> # and VG-7
00045> #*****
00046> # [LP] March 4, 2010
00047> # Model updated to reflect post-development conditions for Mattamy Lands
00048> # Addition of JR-1, JR-2 and JR-3
00049> # Removal of Post-Development Mattamy Lands from Pre-Development Areas:
00050> # VG-3: 40.6 ha to 9.88 ha
00051> # VG-8: 91.8 ha to 10.30 ha
00052> # JR-2: 20.5 ha to 4.96 ha
00053> # JR-3: 10.6 ha to 6.86 ha
00054> # Addition of Pond 1 and Pond 2 outflow hydrographs
00055> # (100-year SCS event, free outfall conditions)
00056> #*****
00057> #
00058> # 100 year 24 Hour SCS Type II Storm
00059> START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[199]
00060> [*SC24100x.stm]
00061> #*****
00062> READ STORM STORM_FILENAME=['*STORM.001*']
00063> #*****
00064> #*****
00065> # Van Gaal / Arbutckle Drain
00066> #*****
00067> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00068> #*****
00069> #*****
00070> CALIB NASHYD ID=[1], NHYD=['VG-1A*'], DT=[5]min, AREA=[311.9](ha),
00071> DWF=[0](cms), CN/C=[73], IA=[3.9](mm),
00072> N=[3], TP=[5.3]hrs, , , ](mm/hr), END=-1
00073> RAINFALL=[ , , , ](mm/hr), END=-1
00074> #*****
00075> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00076> HYD_COMMENT=['VG-1A*']
00077> #*****
00078> #*****
00079> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00080> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00081> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00082> #*****
00083> CALIB NASHYD ID=[2], NHYD=['VG-1B*'], DT=[5]min, AREA=[24.8](ha),
00084> DWF=[0](cms), CN/C=[73], IA=[4.0](mm),
00085> N=[3], TP=[2.7]hrs, , , ](mm/hr), END=-1
00086> RAINFALL=[ , , , ](mm/hr), END=-1
00087> #*****
00088> #*****
00089> # VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00090> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00091> #*****
00092> #
00093> ADD HYD IDsum=[3], NHYD=['VG1-1*'], IDs to add=[1 2]
00094> #*****
00095> SAVE HYD ID=[3], # OF PCYCLES=[-1], ICASEsh=[1]
00096> HYD_COMMENT=['VG1-1*']
00097> #*****

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00098> CALIB NASHYD ID=[4], NHYD=['VG-1D*'], DT=[5]min, AREA=[47.8](ha),
00099> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00100> N=[3], TP=[1.8]hrs, , , ](mm/hr), END=-1
00101> RAINFALL=[ , , , ](mm/hr), END=-1
00102> #*****
00103> #*****
00104> # VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00105> # CONSERVATIVELY INCLUDES THE AREA VG-1D, WHICH IS LOCATED JUST DOWNSTREAM
00106> # OF THE CULVERT
00107> #*****
00108> #
00109> ADD HYD IDsum=[5], NHYD=['VG1-2*'], IDs to add=[3 4]
00110> #*****
00111> SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
00112> HYD_COMMENT=['VG1-2*']
00113> #*****
00114> ROUTE CHANNEL IDout=[6], NHYD=['VG1R-2*'], IDin=[5],
00115> RDT=[5](min),
00116> CHLGT=[865](m), CHSLOPE=[0.15](%),
00117> FFSLOPE=[0.15](%),
00118> SECNUM=[1.01], NSEGE=[3]
00119> ( SEGROUGH, SEGDIST (m))=[0.08,51.41 -0.035,55.58 0.08,228.39] NSEGE times
00120> ( DISTANCE (m), ELEVATION (m))=0 96.719]
00121> [22.98, 96.598]
00122> [42.45, 96.66]
00123> [47.63, 96.5]
00124> [49.64, 96.424]
00125> [51.41, 96]
00126> [53.36, 95.79]
00127> [55.58, 95.887]
00128> [57.42, 96.242]
00129> [87.69, 96.5]
00130> [119.62, 96.509]
00131> [140.1, 96.601]
00132> [179.39, 96.722]
00133> [200.6, 96.89]
00134> [228.39, 97]
00135> #*****
00136> CALIB NASHYD ID=[7], NHYD=['VG-1C*'], DT=[5]min, AREA=[211.8](ha),
00137> DWF=[0](cms), CN/C=[70], IA=[3.9](mm),
00138> N=[3], TP=[4.7]hrs, , , ](mm/hr), END=-1
00139> RAINFALL=[ , , , ](mm/hr), END=-1
00140> #*****
00141> CALIB NASHYD ID=[8], NHYD=['VG-1E*'], DT=[5]min, AREA=[13.4](ha),
00142> DWF=[0](cms), CN/C=[73], IA=[4.0](mm),
00143> N=[3], TP=[0.64]hrs, , , ](mm/hr), END=-1
00144> RAINFALL=[ , , , ](mm/hr), END=-1
00145> #*****
00146> #*****
00147> # VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00148> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00149> #*****
00150> #
00151> ADD HYD IDsum=[9], NHYD=['VG1-3*'], IDs to add=[7 8]
00152> #*****
00153> SAVE HYD ID=[9], # OF PCYCLES=[-1], ICASEsh=[1]
00154> HYD_COMMENT=['VG1-3*']
00155> #*****
00156> ROUTE CHANNEL IDout=[10], NHYD=['VG1R-3*'], IDin=[9],
00157> RDT=[5](min),
00158> CHLGT=[630](m), CHSLOPE=[0.20](%),
00159> FFSLOPE=[0.20](%),
00160> SECNUM=[1.02], NSEGE=[3]
00161> ( SEGROUGH, SEGDIST (m))=[0.08,80.53 -0.035,82.4 0.08,124.53] NSEGE times
00162> ( DISTANCE (m), ELEVATION (m))=0 97
00163> [0.61 97.01]
00164> [3.8 97.03]
00165> [17.49 97.18]
00166> [19.18 97.17]
00167> [26.62 97.15]
00168> [46.29 97.12]
00169> [73.97 97.17]
00170> [76.3 97.04]
00171> [77.53 97]
00172> [80.53 96.86]
00173> [81.38 96.5]
00174> [82.4 96.07]
00175> [87.91 96.07]
00176> [89.65 96.5]
00177> [90.75 96.78]
00178> [91.88 96.91]
00179> [95.2 97]
00180> [99.01 97.1]
00181> [119.73 97.14]
00182> [124.53 97]
00183> #*****
00184> #*****
00185> # VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00186> # ROAD WITH THE MAIN DRAIN
00187> #*****
00188> #
00189> ADD HYD IDsum=[1], NHYD=['VG1-4*'], IDs to add=[6 10]
00190> #*****
00191> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00192> HYD_COMMENT=['VG1-4*']
00193> #*****
00194> ROUTE CHANNEL IDout=[2], NHYD=['VG1R-4*'], IDin=[1],

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00195> RDT=[5](min),
00196> CHLGT=[485](m), CHSLOPE=[0.20](%),
00197> FFSLOPE=[0.20](%),
00198> SECNUM=[1.03], NSEGE=[3]
00199> ( SEGROUGH, SEGDIST (m))=[0.08,44.17 -0.035,53.58 0.08,243.3] NSEG times
00200> ( DISTANCE (m), ELEVATION (m))=
00201> [-44.2, 95.7
00202> 0, 95.5
00203> 15.99, 95.421
00204> 27.91, 95.5
00205> 31.73, 95.5
00206> 32.29, 95.325
00207> 32.71, 95.5
00208> 41.04, 95.5
00209> 44.17, 95.449
00210> 45.63, 95.389
00211> 48.22, 95
00212> 48.54, 94.882
00213> 49.35, 94.5
00214> 49.64, 94.311
00215> 50.46, 94.497
00216> 52.21, 94.993
00217> 53.58, 95.406
00218> 55.08, 95.333
00219> 55.94, 95.157
00220> 76.35, 95.275
00221> 131, 95.403
00222> 213.2, 95.5
00223> 243.3, 95.8]
00224> *%-----|-----|
00225> CALIB NASHYD ID=[3], NHYD=["VG-1F*"], DT=[5]min, AREA=[117.7](ha),
00226> DWF=[0](cms), CN/C=[86], IA=[2.6](mm),
00227> N=[3], TP=[2.9]hrs,
00228> RAINFALL=[ , , , ](mm/hr), END=-1
00229> *%-----|-----|
00230> #*****|-----|
00231> # VGI IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
00232> # WITH VAN GAAL WEST TRIBUTARY
00233> #*****|-----|
00234> #
00235> ADD HYD IDsum=[4], NHYD=["VG1*"], IDs to add=[2 3]
00236> *%-----|-----|
00237> SAVE HYD ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00238> HYD_COMMENT=["VG1*"]
00239> *%-----|-----|
00240> ROUTE CHANNEL IDout=[5], NHYD=["VGR2-1*"], IDin=[4],
00241> RDT=[5](min),
00242> CHLGT=[755](m), CHSLOPE=[0.2](%),
00243> FFSLOPE=[0.2](%),
00244> SECNUM=[5.1], NSEGE=[3]
00245> ( SEGROUGH, SEGDIST (m))=[0.08,98.046 -0.035,105.496 0.08,518.306] NSEG times
00246> ( DISTANCE (m), ELEVATION (m))=[0, 96.11
00247> 20, 94.4
00248> 26.106, 94.5
00249> 41.586, 94.465
00250> 63.506, 94.427
00251> 84.666, 94.492
00252> 95.476, 94.363
00253> 97.736, 94
00254> 98.046, 93.967
00255> 100.336, 92.8193
00256> 101.536, 92.8193
00257> 102.736, 92.8193
00258> 105.496, 94.199
00259> 127.006, 94.345
00260> 142.116, 94.5
00261> 148.376, 94.568
00262> 478.406, 94.7
00263> 518.306, 95]
00264> *%-----|-----|
00265> CALIB NASHYD ID=[6], NHYD=["VG-2*"], DT=[5]min, AREA=[63.1](ha),
00266> DWF=[0](cms), CN/C=[81], IA=[2.8](mm),
00267> N=[3], TP=[1.6]hrs,
00268> RAINFALL=[ , , , ](mm/hr), END=-1
00269> *%-----|-----|
00270> ROUTE CHANNEL IDout=[7], NHYD=["PerN*"], IDin=[6],
00271> RDT=[5](min),
00272> CHLGT=[550](m), CHSLOPE=[0.2](%),
00273> FFSLOPE=[0.2](%),
00274> SECNUM=[1.1], NSEGE=[3]
00275> ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG times
00276> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]
00277> [70, 94.0]
00278> [71, 93.5]
00279> [72, 94.0]
00280> [77, 94.4]
00281> *%-----|-----|
00282> CALIB NASHYD ID=[8], NHYD=["VG-3*"], DT=[5]min, AREA=[9.88](ha),
00283> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00284> N=[3], TP=[0.5]hrs,
00285> RAINFALL=[ , , , ](mm/hr), END=-1
00286> *%-----|-----|
00287> CALIB STANDHYD ID=[9], NHYD=["VG-4*"], DT=[5]min, AREA=[24.6](ha),
00288> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00289> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00290> DCAY=[4.14](/hr), F=[0](mm),
00291> Pervious surfaces: IAPer=[1.5](mm), SLPP=[1.5](%),

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00292> Impervious surfaces: LGP=[35](m), MNP=[0.250], SCP=[0](min),
00293> IAImp=[0.8](mm), SLPI=[0.3](%),
00294> LGr=[1000](m), MM=[0.013], SCI=[0](min),
00295> RAINFALL=[ , , , ](mm/hr), END=-1
00296> *%-----|-----|
00297> ADD HYD IDsum=[1], NHYD=["perthst*"], IDs to add=[5 7 8 9]
00298> *%-----|-----|
00299> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00300> HYD_COMMENT=["perthst*"]
00301> *%-----|-----|
00302> CALIB NASHYD ID=[2], NHYD=["VG-5*"], DT=[5]min, AREA=[34.4](ha),
00303> DWF=[0](cms), CN/C=[76], IA=[3.0](mm),
00304> N=[3], TP=[2.3]hrs,
00305> RAINFALL=[ , , , ](mm/hr), END=-1
00306> *%-----|-----|
00307> ROUTE CHANNEL IDout=[3], NHYD=["PerS*"], IDin=[2],
00308> RDT=[5](min),
00309> CHLGT=[550](m), CHSLOPE=[0.2](%),
00310> FFSLOPE=[0.2](%),
00311> SECNUM=[1.1], NSEGE=[3]
00312> ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG times
00313> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]
00314> [70, 94.0]
00315> [71, 93.5]
00316> [72, 94.0]
00317> [77, 94.4]
00318> *%-----|-----|
00319> ADD HYD IDsum=[2], NHYD=["arbuck*"], IDs to add=[1 3]
00320> *%-----|-----|
00321> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00322> HYD_COMMENT=["arbuck*"]
00323> *%-----|-----|
00324> ROUTE CHANNEL IDout=[9], NHYD=["VGR2-2*"], IDin=[2],
00325> RDT=[5](min),
00326> CHLGT=[520](m), CHSLOPE=[0.15](%),
00327> FFSLOPE=[0.15](%),
00328> SECNUM=[5.2], NSEGE=[3]
00329> ( SEGROUGH, SEGDIST (m))=[0.08,65.27 -0.035,72.03 0.08,317.39] NSEG times
00330> ( DISTANCE (m), ELEVATION (m))=
00331> [1.87, 94
00332> 3.26, 93.815
00333> 25.32, 93.589
00334> 40.32, 93.586
00335> 53.15, 93.49
00336> 65.27, 92.99
00337> 67.31, 92.06
00338> 69.39, 91.93
00339> 69.99, 92.03
00340> 70.75, 92.68
00341> 72.03, 93
00342> 78.14, 93
00343> 87.57, 92.828
00344> 98.82, 93
00345> 131.96, 93.341
00346> 152.55, 93.318
00347> 220.7, 93.525
00348> 262.64, 93.983
00349> 274.22, 94
00350> 286.88, 94
00351> 297.86, 93.981
00352> 314.39, 94.09
00353> 317.39, 95.09]
00354> *%-----|-----|
00355> CALIB NASHYD ID=[1], NHYD=["VG-6*"], DT=[5]min, AREA=[94.2](ha),
00356> DWF=[0](cms), CN/C=[77], IA=[2.9](mm),
00357> N=[3], TP=[3.2]hrs,
00358> RAINFALL=[ , , , ](mm/hr), END=-1
00359> *%-----|-----|
00360> ROUTE CHANNEL IDout=[2], NHYD=["VG-6*"], IDin=[1],
00361> RDT=[5](min),
00362> CHLGT=[600](m), CHSLOPE=[0.18](%),
00363> FFSLOPE=[0.18](%),
00364> SECNUM=[2.1], NSEGE=[3]
00365> *% ( SEGROUGH, SEGDIST (m))=[0.05,700 -0.035,703 0.05,1000] NSEG times
00366> *% ( DISTANCE (m), ELEVATION (m))=[0, 94.6]
00367> *% [700, 94.5]
00368> *% [701.4, 94.1]
00369> *% [701.6, 94.1]
00370> *% [703, 94.5]
00371> *% [1000, 95.1]
00372> *%-----|-----|
00373> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00374> *% HYD_COMMENT=["VG-6*"]
00375> *%-----|-----|
00376> CALIB NASHYD ID=[2], NHYD=["VG-7*"], DT=[5]min, AREA=[39.2](ha),
00377> DWF=[0](cms), CN/C=[80], IA=[3.5](mm),
00378> N=[3], TP=[2.9]hrs,
00379> RAINFALL=[ , , , ](mm/hr), END=-1
00380> *%-----|-----|
00381> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00382> *% HYD_COMMENT=["VG-7*"]
00383> *%-----|-----|
00384> #*****|-----|
00385> * "JR-1" Added February 16, 2010
00386> #*****|-----|
00387> CALIB NASHYD ID=[3], NHYD=["JR-1*"], DT=[5]min, AREA=[32.6](ha),
00388> DWF=[0](cms), CN/C=[82], IA=[3.5](mm),

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00389> N=3], TP=1.6]hrs,
00390> RAINFALL=[ , , , ](mm/hr), END=-1
00391> *%-----
00392> ADD HYD IDsum=4], NHYD=['EX-1'], Ids to add=[2 3](maximum ten)
00393> *%-----
00394> SAVE HYD ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00395> HYD_COMMENT=['EX-1*']
00396> *%-----
00397> ROUTE CHANNEL IDout=5], NHYD=['VG-7'], IDin=4],
00398> RDT=[5](min),
00399> CHLGT=[625](m), CHSLOPE=[0.1](%),
00400> FPSLOPE=[0.1](%),
00401> SECNUM=[5.3], NSEG=[3]
00402> ( SEGROUGH, SEGDLST (m))=[0.08,7.6 -0.035,11.2 0.08,18.8] NSEG times
00403> ( DISTANCE (m), ELEVATION (m))=[0.95,45]
00404> [5.95,35]
00405> [7.1,94.70]
00406> [7.5,94.70]
00407> [7.9,94.35]
00408> [10.9,94.35]
00409> [11.2,94.70]
00410> [11.7,94.70]
00411> [13.8,95.35]
00412> [18.8,95.45]
00413> *%-----
00414> CALIB NASHYD ID=[6], NHYD=['MD*'], DT=[5]min, AREA=[1.3](ha),
00415> DWF=[0](cms), CN/C=[88], IA=[2.6](mm),
00416> N=[3], TP=1.0]hrs,
00417> RAINFALL=[ , , , ](mm/hr), END=-1
00418> *%-----
00419> ADD HYD IDsum=7], NHYD=['MAT-A*'], Ids to add=[1 5 6](maximum ten)
00420> *%-----
00421> SAVE HYD ID=[7], # OF PCYCLES=[-1], ICASEsh=[1]
00422> HYD_COMMENT=['MAT-A*']
00423> *%-----
00424> ROUTE CHANNEL IDout=8], NHYD=['MOORE*'], IDin=7],
00425> RDT=[5](min),
00426> CHLGT=[600](m), CHSLOPE=[0.1](%),
00427> FPSLOPE=[0.1](%),
00428> SECNUM=[2.1], NSEG=[3]
00429> ( SEGROUGH, SEGDLST (m))=[0.08,8.43 -0.035,12.53 0.08,20.96] NSEG times
00430> ( DISTANCE (m), ELEVATION (m))=[0.95,23]
00431> [5.95,13]
00432> [7.43,94.32]
00433> [8.43,94.30]
00434> [8.98,93.75]
00435> [11.98,93.75]
00436> [12.53,94.30]
00437> [13.53,94.32]
00438> [15.96,95.13]
00439> [20.96,95.23]
00440> *%-----
00441> SAVE HYD ID=[8], # OF PCYCLES=[-1], ICASEsh=[1]
00442> HYD_COMMENT=['MOORE*']
00443> *%-----
00444> CALIB NASHYD ID=[7], NHYD=['VG-8*'], DT=[5]min, AREA=[10.30](ha),
00445> DWF=[0](cms), CN/C=[88], IA=[2.6](mm),
00446> N=[3], TP=1.1]hrs,
00447> RAINFALL=[ , , , ](mm/hr), END=-1
00448> *%-----
00449> CALIB STANDHYD ID=[3], NHYD=['VG-9*'], DT=[5](min), AREA=[11.4](ha),
00450> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00451> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00452> DCAY=[4.14](/hr), F=[0](mm),
00453> Pervious surfaces: IApex=[1.5](mm), SLPP=[1.5](%),
00454> Lp=[150](m), MNP=[10.250], SCP=[0](min),
00455> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00456> LGI=[530](m), MNI=[0.013], SCI=[0](min),
00457> RAINFALL=[ , , , ](mm/hr), END=-1
00458> *%-----
00459> STORE HYD ID=[4], NHYD=['POND1*'], DT=[5](min), AREA=[84.67](ha),
00460> FLOW=0
00461> 0.0000005
00462> 0.0000031
00463> 0.0000060
00464> 0.0000111
00465> 0.0000166
00466> 0.0000242
00467> 0.0000337
00468> 0.0000439
00469> 0.0000565
00470> 0.0000716
00471> 0.0000936
00472> 0.0001189
00473> 0.0001464
00474> 0.0001776
00475> 0.0002107
00476> 0.0002466
00477> 0.0002905
00478> 0.0003520
00479> 0.0004243
00480> 0.0005172
00481> 0.0006187
00482> 0.0007318
00483> 0.0008537
00484> 0.0009914
00485> 0.0011451

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00486> 0.0013282
00487> 0.0015205
00488> 0.0017254
00489> 0.0019510
00490> 0.0021853
00491> 0.0024323
00492> 0.0027041
00493> 0.0029944
00494> 0.0032969
00495> 0.0036149
00496> 0.0039469
00497> 0.0042944
00498> 0.0046656
00499> 0.0050526
00500> 0.0054527
00501> 0.0058665
00502> 0.0062947
00503> 0.0067372
00504> 0.0072030
00505> 0.0076862
00506> 0.0081878
00507> 0.0087056
00508> 0.0092420
00509> 0.0098218
00510> 0.0104618
00511> 0.0111245
00512> 0.0118049
00513> 0.0125229
00514> 0.0132518
00515> 0.0140099
00516> 0.0148081
00517> 0.0156356
00518> 0.0164907
00519> 0.0173770
00520> 0.0182922
00521> 0.0192139
00522> 0.0201633
00523> 0.0211436
00524> 0.0221416
00525> 0.0231773
00526> 0.0242398
00527> 0.0253270
00528> 0.0264365
00529> 0.0275626
00530> 0.0287085
00531> 0.0298815
00532> 0.0310744
00533> 0.0323327
00534> 0.0336960
00535> 0.0350476
00536> 0.0364271
00537> 0.0378246
00538> 0.0392529
00539> 0.0406840
00540> 0.0421406
00541> 0.0437208
00542> 0.0453786
00543> 0.0470665
00544> 0.0487687
00545> 0.0504842
00546> 0.0522961
00547> 0.0540909
00548> 0.0560784
00549> 0.0580374
00550> 0.0600413
00551> 0.0620579
00552> 0.0641062
00553> 0.0661599
00554> 0.0682313
00555> 0.0702657
00556> 0.0723219
00557> 0.0744155
00558> 0.0765342
00559> 0.0786897
00560> 0.0811568
00561> 0.0834067
00562> 0.0856172
00563> 0.0879431
00564> 0.0903222
00565> 0.0926058
00566> 0.0948793
00567> 0.0971598
00568> 0.0994224
00569> 0.1018527
00570> 0.1043213
00571> 0.1067787
00572> 0.1092968
00573> 0.1118039
00574> 0.1143389
00575> 0.1168662
00576> 0.1194672
00577> 0.1220748
00578> 0.1246976
00579> 0.1272451
00580> 0.1298517
00581> 0.1324150
00582> 0.1353607

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00583> 0.1384065
00584> 0.1411778
00585> 0.1441055
00586> 0.1468859
00587> 0.1495091
00588> 0.1525037
00589> 0.1556824
00590> 0.1582149
00591> 0.1606110
00592> 0.1629134
00593> 0.1630043
00594> 0.1623761
00595> 0.1654198
00596> 0.1698044
00597> 0.1742452
00598> 0.1781440
00599> 0.1819517
00600> 0.1906226
00601> 0.1983982
00602> 0.2193671
00603> 0.2470190
00604> 0.9591150
00605> 2.2158490
00606> 3.0767260
00607> 3.6502650
00608> 3.9859870
00609> 4.1374240
00610> 4.1742710
00611> 4.1148750
00612> 3.9523730
00613> 3.7689440
00614> 3.5703170
00615> 3.3677730
00616> 3.1771280
00617> 2.9919580
00618> 2.8084000
00619> 2.6404580
00620> 2.4873770
00621> 2.3472640
00622> 2.2223360
00623> 2.1041240
00624> 1.9903740
00625> 1.8875110
00626> 1.7951090
00627> 1.7110560
00628> 1.6358060
00629> 1.5645930
00630> 1.4945690
00631> 1.4282320
00632> 1.3679970
00633> 1.3137300
00634> 1.2629860
00635> 1.2165780
00636> 1.1750130
00637> 1.1374260
00638> 1.1013320
00639> 1.0681980
00640> 1.0384190
00641> 1.0113470
00642> 0.9848770
00643> 0.9605600
00644> 0.9387800
00645> 0.9190560
00646> 0.9010990
00647> 0.8842740
00648> 0.8668400
00649> 0.8511730
00650> 0.8371990
00651> 0.8245990
00652> 0.8117400
00653> 0.7972450
00654> 0.7800750
00655> 0.7639160
00656> 0.7475360
00657> 0.7323930
00658> 0.7186520
00659> 0.7050640
00660> 0.6935330
00661> 0.6803880
00662> 0.6675150
00663> 0.6560690
00664> 0.6453260
00665> 0.6358670
00666> 0.6276380
00667> 0.6207900
00668> 0.6119890
00669> 0.6033140
00670> 0.5953210
00671> 0.5874440
00672> 0.5805300
00673> 0.5738430
00674> 0.5679330
00675> 0.5626860
00676> 0.5583160
00677> 0.5550630
00678> 0.5519500
00679> 0.5467290

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00680> 0.5418950
00681> 0.5376620
00682> 0.5338170
00683> 0.5308320
00684> 0.5278110
00685> 0.5247460
00686> 0.5217840
00687> 0.5186890
00688> 0.5157800
00689> 0.5127730
00690> 0.5097760
00691> 0.5067640
00692> 0.5037890
00693> 0.5010080
00694> 0.4982850
00695> 0.4957410
00696> 0.4932530
00697> 0.4909680
00698> 0.4887250
00699> 0.4866100
00700> 0.4846100
00701> 0.4817590
00702> 0.4774220
00703> 0.4730060
00704> 0.4687510
00705> 0.4645710
00706> 0.4606970
00707> 0.4568870
00708> 0.4533340
00709> 0.4499330
00710> 0.4467120
00711> 0.4435810
00712> 0.4406230
00713> 0.4378680
00714> 0.4350960
00715> 0.4326150
00716> 0.4301130
00717> 0.4278380
00718> 0.4255860
00719> 0.4234340
00720> 0.4214250
00721> 0.4193840
00722> 0.4176030
00723> 0.4157160
00724> 0.4140670
00725> 0.4123620
00726> 0.4107640
00727> 0.4093030
00728> 0.4077740
00729> 0.4064360
00730> 0.4050960
00731> 0.4038090
00732> 0.4026440
00733> 0.4014020
00734> 0.4003330
00735> 0.3991830
00736> 0.3982010
00737> 0.3971790
00738> 0.3961580
00739> 0.3953000
00740> 0.3943320
00741> 0.3935080
00742> 0.3926810
00743> 0.3918820
00744> 0.3911980
00745> 0.3904420
00746> 0.3897380
00747> 0.3890720(cms) END=-1
00748> *%-----|-----|
00749> ADD HYD IDsum=[1], NHYD=["Fortune"], IDs to add=[3 4 7 8 9]
00750> *%-----|-----|
00751> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00752> HYD_COMMENT=["Fortune"]
00753> *%-----|-----|
00754> ROUTE CHANNEL IDout=[3], NHYD=["VGR2-3"], IDin=[1],
00755> RDT=[5](min),
00756> CHLGT=[750](m), CHSLOPE=[0.2](%),
00757> FFSLOPE=[0.2](%),
00758> SECNUM=[5.3], NSEG=[3]
00759> ( SEGROUGH, SEGDIST (m))=[0.05,3.22 -0.035,47.84 0.05,77.80] NSEG times
00760> ( DISTANCE (m), ELEVATION (m))=[0, 93.5
00761> 3.22, 93
00762> 20.87, 92.5
00763> 42.19, 92
00764> 47.84, 92
00765> 48.60, 92.5
00766> 50.14, 93
00767> 72.67, 93.526
00768> 77.80, 93.5]
00769> *%-----|-----|
00770> CALIB STANDHYD ID=[2], NHYD=["VG-10"], DT=[5](min), AREA=[20.3](ha),
00771> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00772> Horton: Fof=[76.20](mm/hr), Fc=[13.20](mm/hr),
00773> DCAY=[4.14](/hr), F=[0](mm),
00774> Pervious surfaces: IAPER=[1.5](mm), SLPP=[1.5](%),
00775> LGP=[50](m), MNP=[0.250], SCP=[0](min),
00776> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),

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00777>
00778>
00779> *%-----
00780> ADD HYD
00781> *%-----
00782> SAVE HYD
00783>
00784> *%-----
00785> *****
00786> * Jock River
00787> *****
00788> CALIB NASHYD
00789>
00790>
00791>
00792> *%-----
00793> CALIB NASHYD
00794>
00795>
00796>
00797> *%-----
00798> STORE HYD
00799>
00800>
00801>
00802>
00803>
00804>
00805>
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00809>
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00971> 1.2084212
00972> 1.1755197
00973> 1.1441322
00974> 1.1141789
00975> 1.0853964
00976> 1.0579369
00977> 1.0316080
00978> 1.0063840
00979> 0.9822571
00980> 0.9591231
00981> 0.9368829
00982> 0.9155824
00983> 0.8951406
00984> 0.8755191
00985> 0.8566463
00986> 0.8385153
00987> 0.8210102
00988> 0.8043252
00989> 0.7862741
00990> 0.7728419
00991> 0.7579902
00992> 0.7429232
00993> 0.7269173
00994> 0.7116558
00995> 0.6971168
00996> 0.6828234
00997> 0.6692088
00998> 0.6560728
00999> 0.6432331
01000> 0.6310832
01001> 0.6192718
01002> 0.6079134
01003> 0.5969628
01004> 0.5863987
01005> 0.5762064
01006> 0.5663504
01007> 0.5567959
01008> 0.5476054
01009> 0.5387404
01010> 0.5301845
01011> 0.5219216
01012> 0.5139344
01013> 0.5062272
01014> 0.4987673
01015> 0.4915445
01016> 0.4845601
01017> 0.4777976
01018> 0.4712542
01019> 0.4649197
01020> 0.4587912
01021> 0.4528451
01022> 0.4470937
01023> 0.4415229
01024> 0.4361225
01025> 0.4308884
01026> 0.4258115
01027> 0.4208856
01028> 0.4160732
01029> 0.4114123
01030> 0.4069257
01031> 0.4025749
01032> 0.3983520
01033> 0.3942444
01034> 0.3902514
01035> 0.3863842
01036> 0.3826244
01037> 0.3789689
01038> 0.3754157
01039> 0.3719608
01040> 0.3684308
01041> 0.3644373
01042> 0.3604150
01043> 0.3565390
01044> 0.3525964
01045> 0.3488270
01046> 0.3451383
01047> 0.3415267
01048> 0.3380444
01049> 0.3346337
01050> 0.3313264
01051> 0.3281104
01052> 0.3249764
01053> 0.3219325
01054> 0.3189687
01055> 0.3160849
01056> 0.3132801
01057> 0.3105491
01058> 0.3078910
01059> 0.3053058
01060> 0.3027874
01061> 0.3003367
01062> 0.2979518
01063> 0.2956285
01064> 0.2933680
01065> 0.2911670
01066> 0.2890226
01067> 0.2869358

01068> 0.2849025
01069> 0.2829237
01070> 0.2809954
01071> 0.2791174
01072> 0.2772879
01073> 0.2755057
01074> 0.2737699
01075> 0.2720784
01076> 0.2704301
01077> 0.2688251
01078> 0.2672604
01079> 0.2657358
01080> 0.2642504
01081> 0.2628021
01082> 0.2613910
01083> 0.2600150
01084> 0.2586750
01085> 0.2573681
01086> 0.2560942(cms) END=-1
01087> *%-----|-----
01088> ADD HYD IDaum=[5], NHVD=["JockVG"], IDs to add=[3 4 6 9]
01089> *%-----|-----
01090> SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
01091> HYD_COMMENT=["Flow From Subject Area At Jock River"]
01092> *%-----|-----
01093> *%-----|-----
01094> *% 2 Year SCS 24 Storm
01095> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[102]
01096> *# ["SC24002x.stm"]
01097> *%-----|-----
01098> *% 5 year 24 Hour SCS Type II Storm
01099> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[105]
01100> *# ["SC24005x.stm"]
01101> *%-----|-----
01102> *% 10 year 24 Hour SCS Type II Storm
01103> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[110]
01104> *# ["SC24010x.stm"]
01105> *%-----|-----
01106> *% 25 year 24 Hour SCS Type II Storm
01107> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[125]
01108> *# ["SC24025x.stm"]
01109> *%-----|-----
01110> *% 50 year 24 Hour SCS Type II Storm
01111> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[150]
01112> *# ["SC24050x.stm"]
01113> *%-----|-----
01114> *% 100 year 24 Hour SCS Type II Storm
01115> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[199]
01116> *# ["SC24100x.stm"]
01117> *%-----|-----
01118> FINISH

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00001> 2 Metric units
00002> #*****
00003> # SMWHRM0 Ver=5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> #*****
00005> # Project Name: [Richmond FPM] Project Number: [709]
00006> # Date : 04-21-2009
00007> # Revised : 04-31-2009; 05-25-2009; 07-22-2009; 08-06-2009; 08-31-2009
00008> # 11-16-2009; 02-16-2010; 03-04-2010
00009> # Modeller : [Bryan Willcott B.Eng.1]
00010> # Company : J.F. Sabourin and Associates
00011> # License # : 3410370
00012> #*****
00013> # [BW] April 31, 2009
00014> # This model is the same as the JFSA summer model with the exception of the
00015> # storm files used and the CN values have been increased to 95
00016> #*****
00017> # [BW] May 25, 2009
00018> # This model has been updated using revised values for Tp. Previous versions
00019> # of this model used a calculated Tp=0.6Tc. This model used a calculated
00020> # Tp=0.67Tc. Manning's n values for the overbanks in the ROUTE CHANNEL
00021> # commands have been changed to 0.05 for Spring conditions. Design storms
00022> # have changed to match those used in the Jock River Model
00023> #*****
00024> # [BW] July 22, 2009
00025> # This model has been revised to include "existing" cross section information
00026> # received from Robinson Consultants. The Cross section revised in the model
00027> # is Sec 5.2 (channel receiving flow from "arbuck"). Also, channel and
00028> # floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00029> #*****
00030> # [BW] August 6, 2009
00031> # This model has been revised to include cross section information
00032> # from Robinson Consultants Engineer's Report July 2003. The cross
00033> # section revised in the model is Sec 5.1. Cross sections Sec 1.03
00034> # and Sec 5.3 have also been revised
00035> #*****
00036> # [BW] August 31, 2009
00037> # Model updated to include the proposed DSEL berm. This affects the geometry
00038> # of Route Channel Sect 5.2 located on the Arbuckle drain. Route Channels 5.2
00039> # and 1.03 have also been revised to reduce the number of values in the
00040> # x-y matrix
00041> #*****
00042> # [BW] November 16, 2009
00043> # Model updated to include revised Tp values subsequent to review of
00044> # memo received from ARECOM on Oct. 2, 2009
00045> #*****
00046> # [BW] February 16, 2010
00047> # Model updated to check cross sections proposed to convey flow from VG-6,
00048> # and VG-7
00049> #*****
00050> # [LP] March 4, 2010
00051> # Model updated to reflect post-development conditions for Mattamy Lands
00052> # Addition of JR-1, JR-2 and JR-3
00053> # Removal of Post-Development Mattamy Lands from Pre-Development Areas:
00054> # VG-3: 40.6 ha to 9.88 ha
00055> # VG-8: 91.8 ha to 10.30 ha
00056> # JR-2: 20.5 ha to 4.96 ha
00057> # JR-3: 10.6 ha to 6.86 ha
00058> # Addition of Pond 1 and Pond 2 outflow hydrographs
00059> # (100-year SCS event, free outfall conditions)
00060> #*****
00061> #
00062> #* 100 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
00063> # START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[399]
00064> # [51001012.stm"]
00065> #*-----|-----|
00066> # READ STORM STORM_FILENAME=["STORM.001"]
00067> #*-----|-----|
00068> #*SAVE HYD ICASEsh=[1] START saving all simulated hydrographs
00069> # [All hydrographs will be saved as NHYD.NRUN]
00070> # [Use SAVE HYD with ICASEsh=[-2] to cancel the autosave.]
00071> #*-----|-----|
00072> #*-----|-----|
00073> #*****
00074> # Van Gaal / Arbuckle Drain
00075> #*****
00076> # DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00077> #*****
00078> #*-----|-----|
00079> # CALIB NASHYD ID=[1], NHYD=["VG-1A"], DT=[5]min, AREA=[311.9](ha),
00080> # DWF=[0](cms), CN/C=[95], IA=[3.9](mm),
00081> # N=[3], TP=[5.3]hrs,
00082> # RAINFALL=[ , , , ](mm/hr), END=-1
00083> #*-----|-----|
00084> # SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00085> # HYD_COMMENT=["VG-1A"]
00086> #*-----|-----|
00087> #*****
00088> # Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00089> # LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00090> # LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00091> #*****
00092> # CALIB NASHYD ID=[2], NHYD=["VG-1B"], DT=[5]min, AREA=[24.8](ha),
00093> # DWF=[0](cms), CN/C=[95], IA=[4.0](mm),
00094> # N=[3], TP=[2.7]hrs,
00095> # RAINFALL=[ , , , ](mm/hr), END=-1
00096> #*-----|-----|
00097> #*****

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00098> #* VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00099> # OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00100> #*****
00101> #*
00102> # ADD HYD IDaum=[3], NHYD=["VG1-1"], IDs to add=[1 2]
00103> #*-----|-----|
00104> # SAVE HYD ID=[3], # OF PCYCLES=[-1], ICASEsh=[1]
00105> # HYD_COMMENT=["VG1-1"]
00106> #*-----|-----|
00107> # CALIB NASHYD ID=[4], NHYD=["VG-1D"], DT=[5]min, AREA=[47.8](ha),
00108> # DWF=[0](cms), CN/C=[95], IA=[2.5](mm),
00109> # N=[3], TP=[1.8]hrs,
00110> # RAINFALL=[ , , , ](mm/hr), END=-1
00111> #*-----|-----|
00112> #*****
00113> #* VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00114> # CONSERVATIVELY INCLUDES THE AREA VG-1D, WHICH IS LOCATED JUST DOWNSTREAM
00115> # OF THE CULVERT
00116> #*****
00117> #*
00118> # ADD HYD IDaum=[5], NHYD=["VG1-2"], IDs to add=[3 4]
00119> #*-----|-----|
00120> # SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
00121> # HYD_COMMENT=["VG1-2"]
00122> #*-----|-----|
00123> # ROUTE CHANNEL IDout=[6], NHYD=["VG1R-2"], IDin=[5],
00124> # RDT=[5](min),
00125> # CHLGT=[865](m), CHSLOPE=[0.15](%),
00126> # FFSLOPE=[0.15](%),
00127> # NSEGM=[3]
00128> # SEGNUM=[1.01],
00129> # ( SEGROUGH, SEGDIST (m))=[0.05,51.41 -0.035,55.58 0.05,228.39] NSEG times
00130> # ( DISTANCE (m), ELEVATION (m))=[0, 96.719]
00131> # [22.98, 96.598]
00132> # [42.45, 96.66]
00133> # [47.63, 96.5]
00134> # [49.64, 96.424]
00135> # [51.41, 96]
00136> # [53.36, 95.79]
00137> # [55.58, 95.887]
00138> # [57.42, 96.242]
00139> # [87.69, 96.5]
00140> # [119.62, 96.509]
00141> # [140.1, 96.601]
00142> # [179.39, 96.722]
00143> # [200.6, 96.89]
00144> # [228.39, 97]
00145> #*-----|-----|
00146> # CALIB NASHYD ID=[7], NHYD=["VG-1C"], DT=[5]min, AREA=[211.8](ha),
00147> # DWF=[0](cms), CN/C=[95], IA=[3.9](mm),
00148> # N=[3], TP=[4.7]hrs,
00149> # RAINFALL=[ , , , ](mm/hr), END=-1
00150> #*-----|-----|
00151> # CALIB NASHYD ID=[8], NHYD=["VG-1E"], DT=[5]min, AREA=[13.4](ha),
00152> # DWF=[0](cms), CN/C=[95], IA=[4.0](mm),
00153> # N=[3], TP=[0.64]hrs,
00154> # RAINFALL=[ , , , ](mm/hr), END=-1
00155> #*-----|-----|
00156> #*****
00157> #* VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00158> # INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00159> #*****
00160> #*
00161> # ADD HYD IDaum=[9], NHYD=["VG1-3"], IDs to add=[7 8]
00162> #*-----|-----|
00163> # SAVE HYD ID=[9], # OF PCYCLES=[-1], ICASEsh=[1]
00164> # HYD_COMMENT=["VG1-3"]
00165> #*-----|-----|
00166> # ROUTE CHANNEL IDout=[10], NHYD=["VG1R-3"], IDin=[9],
00167> # RDT=[5](min),
00168> # CHLGT=[630](m), CHSLOPE=[0.20](%),
00169> # FFSLOPE=[0.20](%),
00170> # NSEGM=[3]
00171> # SEGNUM=[1.02],
00172> # ( SEGROUGH, SEGDIST (m))=[0.05,80.53 -0.035,82.4 0.05,124.53] NSEG times
00173> # ( DISTANCE (m), ELEVATION (m))=[0, 97]
00174> # [0.61, 97.01]
00175> # [3.8, 97.03]
00176> # [17.49, 97.18]
00177> # [19.18, 97.17]
00178> # [26.62, 97.15]
00179> # [46.29, 97.12]
00180> # [73.97, 97.17]
00181> # [76.3, 97.04]
00182> # [77.53, 97]
00183> # [80.53, 96.86]
00184> # [81.38, 96.5]
00185> # [82.4, 96.07]
00186> # [87.91, 96.07]
00187> # [89.65, 96.5]
00188> # [90.75, 96.78]
00189> # [91.88, 96.91]
00190> # [96.2, 97]
00191> # [99.01, 97.1]
00192> # [119.73, 97.14]
00193> # [124.53, 97]
00194> #*-----|-----|
00195> #*****
00196> #* VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S

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00195> *# ROAD WITH THE MAIN DRAIN
00196> *#*****
00197> *#
00198> ADD HYD          IDsum=[1], NHYD=['VG1-4*'], IDs to add=[6 10]
00199> *#-----
00200> SAVE HYD          ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00201> *#-----
00202> *#-----
00203> ROUTE CHANNEL    IDout=[2], NHYD=['VG1R-4*'], IDin=[1],
00204> *#-----
00205> CHLGT=[485](m),   CHSLOPE=[0.20](%),
00206> *#-----
00207> FPSLOPE=[0.20](%),
00208> *#-----
00209> SEGNUM=[1.03],   NSEGE=[3]
00210> ( SEGROUGH, SEGDIST (m))=[0.05,44.17 -0.035,53.58 0.05,243.3] NSEG times
00211> ( DISTANCE (m), ELEVATION (m))=
00212> [-44.2, 95.7
00213> 0, 95.5
00214> 19.69, 95.421
00215> 27.91, 95.5
00216> 31.73, 95.5
00217> 32.29, 95.325
00218> 32.71, 95.5
00219> 41.04, 95.5
00220> 44.17, 95.449
00221> 45.63, 95.389
00222> 48.22, 95
00223> 48.54, 94.882
00224> 49.35, 94.5
00225> 49.64, 94.311
00226> 50.46, 94.497
00227> 52.21, 94.993
00228> 53.58, 95.406
00229> 55.08, 95.333
00230> 55.94, 95.157
00231> 76.35, 95.275
00232> 131, 95.403
00233> 213.2, 95.5
00234> 243.3, 95.8]
00235> *#-----
00236> CALIB NASHYD     ID=[3], NHYD=['VG-1F*'], DT=[5]min, AREA=[117.7](ha),
00237> *#-----
00238> DWF=[0](cms),   CN/C=[95], IA=[2.6](mm),
00239> *#-----
00240> N=[3], TP=[2.9]hrs, END=-1
00241> *#-----
00242> *#-----
00243> *#-----
00244> ADD HYD          IDsum=[4], NHYD=['VG1*'], IDs to add=[2 3]
00245> *#-----
00246> SAVE HYD          ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00247> *#-----
00248> *#-----
00249> ROUTE CHANNEL    IDout=[5], NHYD=['VGR2-1*'], IDin=[4],
00250> *#-----
00251> RDT=[5](min),
00252> CHLGT=[755](m),   CHSLOPE=[0.2](%),
00253> *#-----
00254> FPSLOPE=[0.2](%),
00255> *#-----
00256> SEGNUM=[5.1],   NSEGE=[3]
00257> ( SEGROUGH, SEGDIST (m))=[0.05,98.046 -0.035,105.496 0.05,518.306] NSEG times
00258> ( DISTANCE (m), ELEVATION (m))=[0, 96.11
00259> 20, 94.4
00260> 26.106, 94.5
00261> 41.686, 94.465
00262> 63.506, 94.427
00263> 84.566, 94.492
00264> 95.476, 94.363
00265> 97.736, 94
00266> 98.046, 93.967
00267> 100.336, 92.8193
00268> 101.536, 92.8193
00269> 102.736, 92.8193
00270> 105.496, 94.199
00271> 127.006, 94.345
00272> 142.116, 94.5
00273> 148.376, 94.568
00274> 478.406, 94.7
00275> 518.306, 95]
00276> *#-----
00277> CALIB NASHYD     ID=[6], NHYD=['VG-2*'], DT=[5]min, AREA=[63.1](ha),
00278> *#-----
00279> DWF=[0](cms),   CN/C=[95], IA=[2.8](mm),
00280> *#-----
00281> N=[3], TP=[1.6]hrs, END=-1
00282> *#-----
00283> RAINFALL=[, , , ](mm/hr),
00284> *#-----
00285> ROUTE CHANNEL    IDout=[7], NHYD=['PerN*'], IDin=[6],
00286> *#-----
00287> RDT=[5](min),
00288> CHLGT=[550](m),   CHSLOPE=[0.2](%),
00289> *#-----
00290> FPSLOPE=[0.2](%),
00291> *#-----
00292> SEGNUM=[1.1],   NSEGE=[3]
00293> ( SEGROUGH, SEGDIST (m))=[0.05,70 -0.035,72 0.05,77] NSEG times
00294> ( DISTANCE (m), ELEVATION (m))=[0, 94.4
00295> [70, 94.0]
00296> [71, 93.5]
00297> [72, 94.0]
00298> [77, 94.4]
00299> *#-----
00300> CALIB NASHYD     ID=[8], NHYD=['VG-3*'], DT=[5]min, AREA=[9.88](ha),

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00292> DWF=[0](cms),   CN/C=[95], IA=[2.5](mm),
00293> *#-----
00294> N=[3], TP=[0.5]hrs,
00295> *#-----
00296> RAINFALL=[, , , ](mm/hr), END=-1
00297> *#-----
00298> CALIB STANDHYD  ID=[9], NHYD=['VG-4*'], DT=[5](min), AREA=[24.6](ha),
00299> *#-----
00300> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00301> *#-----
00302> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00303> *#-----
00304> DCAY=[4.14](/hr), F=[0](mm),
00305> *#-----
00306> Pervious surfaces: Iimp=[1.5](mm), SLP=[1.5](%),
00307> *#-----
00308> Impervious surfaces: LGP=[35](m), MNP=[0.250], SCP=[0](min),
00309> *#-----
00310> LGI=[1000](m), MNI=[0.013], SCI=[0](min),
00311> *#-----
00312> RAINFALL=[, , , ](mm/hr), END=-1
00313> *#-----
00314> ADD HYD          IDsum=[1], NHYD=['perthst*'], IDs to add=[5 7 8 9]
00315> *#-----
00316> SAVE HYD          ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00317> *#-----
00318> HYD_COMMENT=['perthst*']
00319> *#-----
00320> CALIB NASHYD     ID=[2], NHYD=['VG-5*'], DT=[5]min, AREA=[34.4](ha),
00321> *#-----
00322> DWF=[0](cms),   CN/C=[95], IA=[3.0](mm),
00323> *#-----
00324> N=[3], TP=[2.3]hrs,
00325> *#-----
00326> RAINFALL=[, , , ](mm/hr), END=-1
00327> *#-----
00328> ROUTE CHANNEL    IDout=[3], NHYD=['PerS*'], IDin=[2],
00329> *#-----
00330> RDT=[5](min),
00331> *#-----
00332> CHLGT=[550](m),   CHSLOPE=[0.2](%),
00333> *#-----
00334> FPSLOPE=[0.2](%),
00335> *#-----
00336> SEGNUM=[1.1],   NSEGE=[3]
00337> ( SEGROUGH, SEGDIST (m))=[0.05,70 -0.035,72 0.05,77] NSEG times
00338> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]
00339> [70, 94.0]
00340> [71, 93.5]
00341> [72, 94.0]
00342> [77, 94.4]
00343> *#-----
00344> ADD HYD          IDsum=[2], NHYD=['arbuick*'], IDs to add=[1 3]
00345> *#-----
00346> SAVE HYD          ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00347> *#-----
00348> HYD_COMMENT=['arbuick*']
00349> *#-----
00350> ROUTE CHANNEL    IDout=[9], NHYD=['VGR2-2*'], IDin=[2],
00351> *#-----
00352> RDT=[5](min),
00353> *#-----
00354> CHLGT=[520](m),   CHSLOPE=[0.15](%),
00355> *#-----
00356> FPSLOPE=[0.15](%),
00357> *#-----
00358> SEGNUM=[5.2],   NSEGE=[3]
00359> ( SEGROUGH, SEGDIST (m))=[0.05,65.27 -0.035,72.03 0.05,317.39] NSEG times
00360> ( DISTANCE (m), ELEVATION (m))=
00361> [1.87 94
00362> 3.26 93.815
00363> 25.32 93.589
00364> 40.32 93.586
00365> 53.15 93.49
00366> 65.27 92.99
00367> 67.31 92.06
00368> 69.39 91.93
00369> 69.99 92.03
00370> 70.75 92.68
00371> 72.03 93
00372> 78.14 93
00373> 87.57 92.828
00374> 98.82 93
00375> 131.96 93.341
00376> 152.55 93.318
00377> 220.7 93.525
00378> 262.64 93.983
00379> 274.22 94
00380> 286.88 94
00381> 297.86 93.981
00382> 314.39 94.09
00383> 317.39, 95.09]
00384> *#-----
00385> CALIB NASHYD     ID=[1], NHYD=['VG-6*'], DT=[5]min, AREA=[94.2](ha),
00386> *#-----
00387> DWF=[0](cms),   CN/C=[95], IA=[2.9](mm),
00388> *#-----
00389> N=[3], TP=[3.2]hrs,
00390> *#-----
00391> RAINFALL=[, , , ](mm/hr), END=-1
00392> *#-----
00393> *# ROUTE CHANNEL IDout=[2], NHYD=['VG-6*'], IDin=[1],
00394> *#-----
00395> RDT=[5](min),
00396> *#-----
00397> CHLGT=[600](m),   CHSLOPE=[0.18](%),
00398> *#-----
00399> FPSLOPE=[0.18](%),
00400> *#-----
00401> SEGNUM=[2.1],   NSEGE=[3]
00402> *#-----
00403> ( SEGROUGH, SEGDIST (m))=[0.05,700 -0.035,703 0.05,1000] NSEG times
00404> ( DISTANCE (m), ELEVATION (m))=[0, 94.6]
00405> [700, 94.5]
00406> [701.4, 94.1]
00407> [701.6, 94.1]
00408> [703, 94.5]
00409> [1000, 95.1]
00410> *#-----
00411> *# SAVE HYD      ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00412> *#-----
00413> HYD_COMMENT=['VG-6*']
00414> *#-----
00415> CALIB NASHYD     ID=[2], NHYD=['VG-7*'], DT=[5]min, AREA=[39.2](ha),
00416> *#-----
00417> DWF=[0](cms),   CN/C=[95], IA=[3.5](mm),
00418> *#-----
00419> N=[3], TP=[2.9]hrs,
00420> *#-----
00421> RAINFALL=[, , , ](mm/hr), END=-1

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00389> *%-----|-----|
00390> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00391> HYD_COMMENT=["VG-7*"]
00392> *%-----|-----|
00393> #*****|-----|
00394> # "JR-1" Added February 16, 2010
00395> #*****|-----|
00396> CALIB NASHYD ID=[3], NHYD=["JR-1"], DT=[5]min, AREA=[32.6](ha),
00397> DWF=[0](cms), CN/C=[95], IA=[3.5](mm),
00398> N=[3], TP=[1.1]hrs,
00399> RAINFALL=[ , , , ](mm/hr), END=-1
00400> *%-----|-----|
00401> ADD HYD IDsum=[4], NHYD=["EX-1*"], IDs to add=[2 3](maximum ten)
00402> *%-----|-----|
00403> SAVE HYD ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00404> HYD_COMMENT=["EX-1*"]
00405> *%-----|-----|
00406> ROUTE CHANNEL IDout=[5], NHYD=["VG-7*"], IDin=[4],
00407> RDT=[5](min),
00408> CHLGT=[625](m), CHSLOPE=[0.1](%),
00409> FPSLOPE=[0.1](%),
00410> SECNUM=[5.3], NSEG=[3]
00411> ( SEGROUGH, SEGDIST (m))=[0.05,7.6 -0.035,11.2 0.05,18.8] NSEG times
00412> ( DISTANCE (m), ELEVATION (m))=[0, 95.45]
00413> [5, 95.35]
00414> [7.1, 94.70]
00415> [7.6, 94.70]
00416> [7.9, 94.35]
00417> [10.9, 94.35]
00418> [11.2, 94.70]
00419> [11.7, 94.70]
00420> [13.8, 95.35]
00421> [18.8, 95.45]
00422> *%-----|-----|
00423> CALIB NASHYD ID=[6], NHYD=["MD"], DT=[5]min, AREA=[1.3](ha),
00424> DWF=[0](cms), CN/C=[95], IA=[2.6](mm),
00425> N=[3], TP=[1.0]hrs,
00426> RAINFALL=[ , , , ](mm/hr), END=-1
00427> *%-----|-----|
00428> ADD HYD IDsum=[7], NHYD=["MAT-A*"], IDs to add=[1 5 6](maximum ten)
00429> *%-----|-----|
00430> SAVE HYD ID=[7], # OF PCYCLES=[-1], ICASEsh=[1]
00431> HYD_COMMENT=["MAT-A*"]
00432> *%-----|-----|
00433> ROUTE CHANNEL IDout=[8], NHYD=["MOORE*"], IDin=[7],
00434> RDT=[5](min),
00435> CHLGT=[600](m), CHSLOPE=[0.1](%),
00436> FPSLOPE=[0.1](%),
00437> SECNUM=[2.1], NSEG=[3]
00438> ( SEGROUGH, SEGDIST (m))=[0.05,8.43 -0.035,12.53 0.05,20.96] NSEG times
00439> ( DISTANCE (m), ELEVATION (m))=[0, 95.23]
00440> [5, 95.13]
00441> [7.43, 94.32]
00442> [8.43, 94.30]
00443> [8.98, 93.75]
00444> [11.98, 93.75]
00445> [12.53, 94.30]
00446> [13.53, 94.32]
00447> [15.96, 95.13]
00448> [20.96, 95.23]
00449> *%-----|-----|
00450> SAVE HYD ID=[8], # OF PCYCLES=[-1], ICASEsh=[1]
00451> HYD_COMMENT=["Moore*"]
00452> *%-----|-----|
00453> CALIB NASHYD ID=[7], NHYD=["VG-8*"], DT=[5]min, AREA=[10.30](ha),
00454> DWF=[0](cms), CN/C=[95], IA=[2.6](mm),
00455> N=[3], TP=[1.1]hrs,
00456> RAINFALL=[ , , , ](mm/hr), END=-1
00457> *%-----|-----|
00458> CALIB STANDHYD ID=[3], NHYD=["VG-9*"], DT=[5](min), AREA=[11.4](ha),
00459> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00460> Horton: F=[76.20](mm/hr), F=[13.20](mm/hr),
00461> DCAY=[4.14](/hr), F=[0](mm),
00462> Pervious surfaces: IAPer=[1.5](mm), SLPP=[1.5](%),
00463> LGP=[50](m), MNP=[0.250], SCP=[0](min),
00464> Impervious surfaces: IAImp=[0.8](mm), SLPI=[0.3](%),
00465> LGI=[530](m), MNI=[0.013], SCI=[0](min),
00466> RAINFALL=[ , , , ](mm/hr), END=-1
00467> *%-----|-----|
00468> STORE HYD ID=[4], NHYD=["POND1*"], DT=[20](min), AREA=[84.67](ha),
00469> FLOW=0
00470> 0.0000091
00471> 0.0000384
00472> 0.0001009
00473> 0.0002144
00474> 0.0003745
00475> 0.0006081
00476> 0.0009121
00477> 0.0012944
00478> 0.0017582
00479> 0.0022943
00480> 0.0029234
00481> 0.0036369
00482> 0.0044317
00483> 0.0053301
00484> 0.0063088
00485> 0.0073777

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00486> 0.0085417
00487> 0.0098001
00488> 0.0111728
00489> 0.0126564
00490> 0.0142386
00491> 0.0159520
00492> 0.0177728
00493> 0.0196982
00494> 0.0218849
00495> 0.0251647
00496> 0.0290064
00497> 0.0333152
00498> 0.0381532
00499> 0.0432971
00500> 0.0488440
00501> 0.0547981
00502> 0.0609736
00503> 0.0674202
00504> 0.0740646
00505> 0.0808538
00506> 0.0876249
00507> 0.0943488
00508> 0.1009975
00509> 0.1075015
00510> 0.1138464
00511> 0.1197872
00512> 0.1255737
00513> 0.1306627
00514> 0.1357275
00515> 0.1402021
00516> 0.1442165
00517> 0.1480024
00518> 0.1511480
00519> 0.1539108
00520> 0.1564904
00521> 0.1582798
00522> 0.1597166
00523> 0.1610364
00524> 0.1621720
00525> 0.1629634
00526> 0.1632751
00527> 0.1632135
00528> 0.1631428
00529> 0.1630468
00530> 0.1629303
00531> 0.1628052
00532> 0.1626692
00533> 0.1625206
00534> 0.1623593
00535> 0.1621802
00536> 0.1617591
00537> 0.1616966
00538> 0.1616202
00539> 0.16165309
00540> 0.16174330
00541> 0.16182202
00542> 0.16191945
00543> 0.1700538
00544> 0.1709008
00545> 0.1716999
00546> 0.1724658
00547> 0.1732170
00548> 0.1739562
00549> 0.1746795
00550> 0.1753912
00551> 0.1760888
00552> 0.1767733
00553> 0.1774443
00554> 0.1780396
00555> 0.1785183
00556> 0.1789839
00557> 0.1794361
00558> 0.1798757
00559> 0.1802990
00560> 0.1808320
00561> 0.1815532
00562> 0.1823601
00563> 0.1837880
00564> 0.1854970
00565> 0.1871933
00566> 0.1889353
00567> 0.1907730
00568> 0.1924782
00569> 0.1941093
00570> 0.1956391
00571> 0.1969132
00572> 0.1978730
00573> 0.1984567
00574> 0.2003391
00575> 0.2024998
00576> 0.2045953
00577> 0.2065100
00578> 0.2084456
00579> 0.2106225
00580> 0.2128273
00581> 0.2149611
00582> 0.2168687

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00583>	0.2187031	00680>	0.2711593
00584>	0.2204372	00681>	0.2689485
00585>	0.2220360	00682>	0.2670175
00586>	0.2235854	00683>	0.2653453
00587>	0.2250082	00684>	0.2639165
00588>	0.2262460	00685>	0.2627233
00589>	0.2274200	00686>	0.2617756
00590>	0.2284814	00687>	0.2611260
00591>	0.2293519	00688>	0.2609030
00592>	0.2301751	00689>	0.2607180
00593>	0.2308308	00690>	0.2605360
00594>	0.2312696	00691>	0.2603540
00595>	0.2316468	00692>	0.2601730
00596>	0.2319039	00693>	0.2599940
00597>	0.2319409	00694>	0.2598150
00598>	0.2319419	00695>	0.2596370
00599>	0.2319397	00696>	0.2594600
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01190> ADD HYD IDsum=[1], NHYD=['Fortune'], IDs to add=[3 4 7 8 9]
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01192> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
01193> HYD_COMMENT=['Fortune']
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01197> CHLGT=[750](m), CHSLOPE=[0.2](%),
01198> FFSLOPE=[0.2](%),
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02000> ( SEGROUGH, SEGDIST (m))=[0.05,3.22 -0.035,47.84 0.05,77.80] NSRG times
02010> ( DISTANCE (m), ELEVATION (m))=[0, 93.5
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02040> 42.19, 92
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02060> 48.60, 92.5
02070> 50.14, 93
02080> 72.67, 93.526
02090> 77.80, 93.5]
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02114> DCAy=[4.14](mm), F=[0](mm),
02115> Pervious surfaces: Iapex=[1.5](mm), SLPp=[1.5](%),
02116> LGP=[50](m), MNP=[0.250], SCP=[0](min),
02117> Impervious surfaces: IAlmp=[0.8](mm), SLPi=[0.3](%),
02118> LGI=[560](m), MNI=[0.013], SCI=[0](min),
02119> RAINFALL=[ , , , ](mm/hr), END=-1
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02226> *$-----|-----|
02227> *****
02228> * Jock River
02229> *****
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01961> *%-----|-----|-----|
01962> ADD HYD IDsums=[5], NHYD=["JockVG"], IDs to add=[3 4 6 9]
01963> *%-----|-----|-----|
01964> SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[-1]
01965> HYD_FILENAME=["JockVG"]
01966> HYD_COMMENT=["Flow From Subject Area At Jock River"]
01967> *%-----|-----|-----|
01968> *%-----|-----|-----|
01969> *% 2 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
01970> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[302]
01971> *# ["50021012.stm"]
01972> *%-----|-----|-----|
01973> *% 5 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
01974> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[305]
01975> *# ["50051012.stm"]
01976> *%-----|-----|-----|
01977> *% 10 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
01978> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[310]
01979> *# ["50101012.stm"]
01980> *%-----|-----|-----|
01981> *% 25 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
01982> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[325]
01983> *# ["50251012.stm"]
01984> *%-----|-----|-----|
01985> *% 50 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
01986> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[350]
01987> *# ["50501012.stm"]
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01989> *% 100 YR - 10 day SNOWMELT+RAIN based on OTTAWA CDA IDF Curves (12 hrs sinus)
01990> *#START TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[399]
01991> *# ["51001012.stm"]
01992> *%-----|-----|-----|
01993> FINISH

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