

```

*%-----|-----|
ADD HYD      IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%-----|-----|
*%-----|-----|
CALIB NASHYD  ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
               DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm),
               N=[3], TP=[0.29]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
               XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[17](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[160](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
               XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[80](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[133](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
               XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[30](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[93](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
               XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],

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Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                  LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1

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*%-----|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
               XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[17](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[68](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD  ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
               DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
               N=[3], TP=[0.29]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1

*#-----|-----|
-NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|
ADD HYD      IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|-----|
-NORTH SWMP NORTH TOTAL-----|
ADD HYD      IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMf-N"], IDin=[4],
                 RDT=[1](min),
                 TABLE of ( OUTFLOW-STORAGE ) values
                        (cms) - (ha-m)
                        [ 0.0 , 0.0 ]
                        [ 0.008 , 0.021 ]
                        [ 0.024 , 0.066 ]
                        [ 0.033 , 0.116 ]
                        [ 0.040 , 0.174 ]
                        [ 0.334 , 0.236 ]
                        [ 0.384 , 0.300 ]
                        [ 0.429 , 0.367 ]
                        [ 0.469 , 0.437 ]
                        [ 0.488 , 0.473 ]
                        [ 1.316 , 0.548 ]
                        [ 2.305 , 0.587 ]
                        [ 3.749 , 0.630 ]
                        [ -1 , -1 ] (max twenty pts)
                 IDovf=[5], NHYDovf=["NOvf"]
*%-----|-----|
*#-----|-----|
-NORTH CATCHMENT TOTAL-----|
ADD HYD      IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----|

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*#-----|-----|
*#-----|-----SOUTHERN CATCHMENT-----|
*#-----|-----LANDS DRAINING TO SOUTH SWM POND-----|
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----SOUTH SWM POND-----|
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015 ]
[ 0.024 , 0.048 ]
[ 0.033 , 0.088 ]
[ 0.040 , 0.133 ]
[ 0.219 , 0.182 ]
[ 0.246 , 0.234 ]
[ 0.270 , 0.291 ]
[ 0.293 , 0.352 ]
[ 0.303 , 0.383 ]
[ 0.964 , 0.450 ]
[ 1.678 , 0.485 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["S0vf"]
*#-----|-----|
*#-----|-----SOUTHEASTERN CATCHMENT-----|
*#-----|-----|
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----Bioretention-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.002 , 0.001 ]

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[ 0.007 , 0.004 ]
[ 0.011 , 0.007 ]
[ 0.016 , 0.009 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["BIO0vf"]
*#-----|-----|
*#-----|-----Dry Pond-----|
ROUTE RESERVOIR IDout=[9], NHYD=["DRYPOND"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.005 , 0.000 ]
[ 0.009 , 0.003 ]
[ 0.010 , 0.006 ]
[ 0.012 , 0.010 ]
[ 0.014 , 0.017 ]
[ 0.014 , 0.020 ]
[ 0.040 , 0.028 ]
[ 0.043 , 0.040 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[1], NHYDovf=["DRY0vf"]
*#-----|-----|
*#-----|-----SITE TOTAL-----|
ADD HYD IDsum=[10], NHYD=["POSTSITE"], IDs to add=[6,3,7,9,1]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----POST-DEVELOPMENT-----|
*#-----|-----OVERALL WC 7 FLOWS-----|
*#-----|-----|
*#-----|-----POST-LAND SWAP-----|
*#-----|-----LANDS UPSTREAM OF SITE-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["701"], DT=[1]min, AREA=[137.8](ha),
DWF=[0](cms), CN/C=[79.9], IA=[9.27](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
SHIFT HYD IDout=[2], NHYD=["701Shift"], IDin=[1], TLAG=[24](min)
*#-----|-----|
*#-----|-----POST DEV UNDEVELOPED AREA-----|
*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["7021"], DT=[1]min, AREA=[22.98](ha),
DWF=[0](cms), CN/C=[69.1], IA=[7.1](mm),

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N=[3], TP=[0.7]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["PosWC7"], IDs to add=[2,3,10]
*#-----|-----|
*#-----|-----|
SAVE HYD ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
HYD_COMMENT=["POST WC7"]
*#-----|-----|

*****
*****Chicago 50yr 4-hr storm*****
*****
*#-----|-----|

CHICAGO STORM IUNITS=[2], TD=[4.0](hrs), TPRAT=[0.33], CSDT=[5](min),
ICASEcs=[2],
Enter ordinates of IDF curve below, at least seven points
TIME (min) Intensity(mm/hr)
[ 5 ] [ 239.7 ]
[ 10 ] [ 147.7 ]
[ 15 ] [ 111.2 ]
[ 30 ] [ 68.5 ]
[ 60 ] [ 42.2 ]
[ 120 ] [ 26.0 ]
[ 360 ] [ 12.1 ]
[ 720 ] [ 7.4 ]
[ 1440 ] [ 4.6 ]
-1 -1
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT-----|
*#-----|OVERALL WC 7 FLOWS-----|
*#-----|-----|
*#-----|PRE-LAND SWAP-----|
*#-----|LANDS UPSTREAM OF SITE-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["701"], DT=[1]min, AREA=[146.70](ha),
DWF=[0](cms), CN/C=[79.9], IA=[6.7](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|SITE AND SURROUNDING AREA-----|

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*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
DWF=[0](cms), CN/C=[69.1], IA=[7.4](mm),
N=[3], TP=[0.7]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
SHIFT HYD IDout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
*#-----|-----|
*#-----|WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
*#-----|-----|
*#-----|-----|
SAVE HYD ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
HYD_COMMENT=["PRE WC7"]
*#-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT SWM QUANTITY-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha),
DWF=[0](cms), CN/C=[74.3], IA=[9.27](mm),
N=[3], TP=[0.42]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha),
DWF=[0](cms), CN/C=[73.5], IA=[9.7](mm),
N=[3], TP=[0.38]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm),
N=[3], TP=[0.26]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm),
N=[3], TP=[0.34]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|North (Catchment 2) Internal-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*#-----|-----|
*#-----|North (Catchment 2) Total-----|

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*%-----|-----|
ADD HYD      IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%-----|-----|
*%-----|-----|
CALIB NASHYD  ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
               DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm),
               N=[3], TP=[0.29]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|

*#-----|-----|
*#-----|-----|
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*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
               XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[17](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[160](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
               XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[80](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[133](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
               XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[30](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[93](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
               XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],

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Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                  LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1

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*%-----|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
               XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[17](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[68](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD  ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
               DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
               N=[3], TP=[0.29]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1

*#-----|-----|
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*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
               XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[80](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[133](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
               XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[30](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[93](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
               XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],

```

```

*#-----|-----|
ADD HYD      IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMf-N"], IDin=[4],
                 RDT=[1](min),
                 TABLE of ( OUTFLOW-STORAGE ) values
                        (cms) - (ha-m)
                        [ 0.0 , 0.0 ]
                        [ 0.008 , 0.021 ]
                        [ 0.024 , 0.066 ]
                        [ 0.033 , 0.116 ]
                        [ 0.040 , 0.174 ]
                        [ 0.334 , 0.236 ]
                        [ 0.384 , 0.300 ]
                        [ 0.429 , 0.367 ]
                        [ 0.469 , 0.437 ]
                        [ 0.488 , 0.473 ]
                        [ 1.316 , 0.548 ]
                        [ 2.305 , 0.587 ]
                        [ 3.749 , 0.630 ]
                        [ -1 , -1 ] (max twenty pts)
                 IDovf=[5], NHYDovf=["NOvf"]
*%-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----|

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*#-----|-----|
*#-----|-----SOUTHERN CATCHMENT-----|
*#-----|-----LANDS DRAINING TO SOUTH SWM POND-----|
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----SOUTH SWM POND-----|
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015 ]
[ 0.024 , 0.048 ]
[ 0.033 , 0.088 ]
[ 0.040 , 0.133 ]
[ 0.219 , 0.182 ]
[ 0.246 , 0.234 ]
[ 0.270 , 0.291 ]
[ 0.293 , 0.352 ]
[ 0.303 , 0.383 ]
[ 0.964 , 0.450 ]
[ 1.678 , 0.485 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["S0vf"]
*#-----|-----|
*#-----|-----SOUTHEASTERN CATCHMENT-----|
*#-----|-----|
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----Bioretention-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.002 , 0.001 ]

```

```

[ 0.007 , 0.004 ]
[ 0.011 , 0.007 ]
[ 0.016 , 0.009 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["BIO0vf"]
*#-----|-----|
*#-----|-----Dry Pond-----|
ROUTE RESERVOIR IDout=[9], NHYD=["DRYPOND"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.005 , 0.000 ]
[ 0.009 , 0.003 ]
[ 0.010 , 0.006 ]
[ 0.012 , 0.010 ]
[ 0.014 , 0.017 ]
[ 0.014 , 0.020 ]
[ 0.040 , 0.028 ]
[ 0.043 , 0.040 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[1], NHYDovf=["DRY0vf"]
*#-----|-----|
*#-----|-----SITE TOTAL-----|
ADD HYD IDsum=[10], NHYD=["POSTSITE"], IDs to add=[6,3,7,9,1]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----POST-DEVELOPMENT-----|
*#-----|-----OVERALL WC 7 FLOWS-----|
*#-----|-----|
*#-----|-----POST-LAND SWAP-----|
*#-----|-----LANDS UPSTREAM OF SITE-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["701"], DT=[1]min, AREA=[137.8](ha),
DWF=[0](cms), CN/C=[79.9], IA=[9.27](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
SHIFT HYD IDout=[2], NHYD=["701Shift"], IDin=[1], TLAG=[24](min)
*#-----|-----|
*#-----|-----POST DEV UNDEVELOPED AREA-----|
*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["7021"], DT=[1]min, AREA=[22.98](ha),
DWF=[0](cms), CN/C=[69.1], IA=[7.1](mm),

```

```

N=[3], TP=[0.7]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["PosWC7"], IDs to add=[2,3,10]
*#-----|-----|
*#-----|-----|
SAVE HYD ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
HYD_COMMENT=["POST WC7"]
*#-----|-----|

*****
*****Chicago 100yr 4-hr storm*****
*****
*#-----|-----|

CHICAGO STORM IUNITS=[2], TD=[4.0](hrs), TPRAT=[0.33], CSDT=[5](min),
ICASEcs=[2],
Enter ordinates of IDF curve below, at least seven points
TIME (min) Intensity(mm/hr)
[ 5 ] [ 263.3 ]
[ 10 ] [ 162.3 ]
[ 15 ] [ 122.3 ]
[ 30 ] [ 75.3 ]
[ 60 ] [ 46.4 ]
[ 120 ] [ 28.6 ]
[ 360 ] [ 13.3 ]
[ 720 ] [ 8.2 ]
[ 1440 ] [ 5.0 ]
-1 -1
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT-----|
*#-----|OVERALL WC 7 FLOWS-----|
*#-----|-----|
*#-----|PRE-LAND SWAP-----|
*#-----|LANDS UPSTREAM OF SITE-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["701"], DT=[1]min, AREA=[146.70](ha),
DWF=[0](cms), CN/C=[79.9], IA=[6.7](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|SITE AND SURROUNDING AREA-----|

```

```

*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
DWF=[0](cms), CN/C=[69.1], IA=[7.4](mm),
N=[3], TP=[0.7]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
SHIFT HYD IDout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
*#-----|-----|
*#-----|WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
*#-----|-----|
*#-----|-----|
SAVE HYD ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
HYD_COMMENT=["PRE WC7"]
*#-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT SWM QUANTITY-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha),
DWF=[0](cms), CN/C=[74.3], IA=[9.27](mm),
N=[3], TP=[0.42]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha),
DWF=[0](cms), CN/C=[73.5], IA=[9.7](mm),
N=[3], TP=[0.38]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm),
N=[3], TP=[0.26]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm),
N=[3], TP=[0.34]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|North (Catchment 2) Internal-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*#-----|-----|
*#-----|North (Catchment 2) Total-----|

```

```

*%-----|-----|
ADD HYD      IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%-----|-----|
*%-----|-----|
CALIB NASHYD  ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
               DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm),
               N=[3], TP=[0.29]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
               XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[17](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[160](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
               XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[80](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[133](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
               XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[30](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[93](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
               XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],

```

```

Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                  LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1

```

```

*%-----|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
               XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
               SCS curve number CN=[79.0],
               Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                                   LGP=[17](m), MNP=[0.25], SCP=[0](min),
               Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                                   LGI=[68](m), MNI=[0.013], SCI=[0](min),
               RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD  ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
               DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
               N=[3], TP=[0.29]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[3], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
                 RDT=[1](min),
                 TABLE of ( OUTFLOW-STORAGE ) values
                        (cms) - (ha-m)
                        [ 0.0 , 0.0 ]
                        [ 0.008 , 0.021 ]
                        [ 0.024 , 0.066 ]
                        [ 0.033 , 0.116 ]
                        [ 0.040 , 0.174 ]
                        [ 0.334 , 0.236 ]
                        [ 0.384 , 0.300 ]
                        [ 0.429 , 0.367 ]
                        [ 0.469 , 0.437 ]
                        [ 0.488 , 0.473 ]
                        [ 1.316 , 0.548 ]
                        [ 2.305 , 0.587 ]
                        [ 3.749 , 0.630 ]
                        [ -1 , -1 ] (max twenty pts)
                 IDovf=[5], NHYDovf=["NOvf"]
*%-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----|

```

```

*#-----|-----|
*#-----|-----SOUTHERN CATCHMENT-----|
*#-----|-----LANDS DRAINING TO SOUTH SWM POND-----|
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----SOUTH SWM POND-----|
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015 ]
[ 0.024 , 0.048 ]
[ 0.033 , 0.088 ]
[ 0.040 , 0.133 ]
[ 0.219 , 0.182 ]
[ 0.246 , 0.234 ]
[ 0.270 , 0.291 ]
[ 0.293 , 0.352 ]
[ 0.303 , 0.383 ]
[ 0.964 , 0.450 ]
[ 1.678 , 0.485 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["S0vf"]
*#-----|-----|
*#-----|-----SOUTHEASTERN CATCHMENT-----|
*#-----|-----|
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----Bioretention-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.002 , 0.001 ]

```

```

[ 0.007 , 0.004 ]
[ 0.011 , 0.007 ]
[ 0.016 , 0.009 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["BIO0vf"]
*#-----|-----|
*#-----|-----Dry Pond-----|
ROUTE RESERVOIR IDout=[9], NHYD=["DRYPOND"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.005 , 0.000 ]
[ 0.009 , 0.003 ]
[ 0.010 , 0.006 ]
[ 0.012 , 0.010 ]
[ 0.014 , 0.017 ]
[ 0.014 , 0.020 ]
[ 0.040 , 0.028 ]
[ 0.043 , 0.040 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[1], NHYDovf=["DRY0vf"]
*#-----|-----|
*#-----|-----SITE TOTAL-----|
ADD HYD IDsum=[10], NHYD=["POSTSITE"], IDs to add=[6,3,7,9,1]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----POST-DEVELOPMENT-----|
*#-----|-----OVERALL WC 7 FLOWS-----|
*#-----|-----|
*#-----|-----POST-LAND SWAP-----|
*#-----|-----LANDS UPSTREAM OF SITE-----|
*#-----|-----|
CALIB NASHYD ID=[1], NHYD=["701"], DT=[1]min, AREA=[137.8](ha),
DWF=[0](cms), CN/C=[79.9], IA=[9.27](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
SHIFT HYD IDout=[2], NHYD=["701Shift"], IDin=[1], TLAG=[24](min)
*#-----|-----|
*#-----|-----POST DEV UNDEVELOPED AREA-----|
*#-----|-----|
CALIB NASHYD ID=[3], NHYD=["7021"], DT=[1]min, AREA=[22.98](ha),
DWF=[0](cms), CN/C=[69.1], IA=[7.1](mm),

```

```

                                N=[3], TP=[0.7]hrs,
                                RAINFALL=[ , , , , ](mm/hr),  END=-1
*#-----|-----|
*#-----| -WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|
*%-----|-----|
ADD HYD                                IDsum=[4], NHYD=[ "PosWC7"], IDs to add=[2,3,10]
*%-----|-----|
*%-----|-----|
SAVE HYD                                ID=[4],  # OF PCYCLES=[1], ICASEsh=[1]
                                HYD_COMMENT=[ "POST WC7"]
*#-----|-----|

*#-----|-----|
FINISH
```

4-Hour Chicago Output File

```
=====
=====
SSSSS W W M M H H Y Y M M 000 222 000 11
77777 =====
S W W W MM MM H H Y Y MM MM 0 0 2 0 0 11
7 7
SSSSS W W W M M M HHHHH Y M M 0 0 2 0 0 11
7 Ver4.05.0
S W W M M H H Y M M 0 0 222 0 0 11
7 APR 2017
SSSSS W W M M H H Y M M 000 2 0 0 11
7 =====
2 0 0 11
7 # 3737016
StormWater Management HYdrologic Model 222 000 11
7 =====

*****
*****
***** SWMHYMO Ver4.05.0
*****
***** A single event and continuous hydrologic simulation model
***** based on the principles of HYMO and its successors
*****
***** OTTHYMO-83 and OTTHYMO-89.
*****

*****
*****
***** Distributed by: J.F. Sabourin and Associates Inc.
*****
***** Ottawa, Ontario: (613) 836-3884
*****
***** Gatineau, Quebec: (819) 243-6858
*****
***** E-Mail: swmhymo@jfsa.com
*****

*****
*****

+++++
+++++
+++++ Licensed user: C.F. Crozier & Associates Inc.
+++++
```

```
+++++ Collingwood SERIAL#:3737016
+++++

+++++
+++++

*****
*****
***** +++++ PROGRAM ARRAY DIMENSIONS +++++
*****
***** Maximum value for ID numbers : 11
*****
***** Max. number of rainfall points: 105408
*****
***** Max. number of flow points : 105408
*****

*****
*****

***** S U M M A R Y O U T P U T
*****

*****
*****
***** RUN DATE: 2026-06-25 TIME: 14:42:15 RUN COUNTER: 000003
*****
*****

*****
*****
***** * Input file: J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design\_Rental\Civil_Water\*
***** SWM\SWMHYMO\CHI\CHI.DAT
*****
***** * Output file: J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design\_Rental\Civil_Water\*
***** SWM\SWMHYMO\CHI\CHI.out
*****
***** * Summary file: J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design\_Rental\Civil_Water\*
***** SWM\SWMHYMO\CHI\CHI.sum
*****
***** * User comments:
*****
*****
1: _____
*****
```

2: _____
*
*
3: _____
*

#*****

Project Name: [PARKBRIDGE CRAIGLEITH] Project Number: [1046-4031]

Date : 2018-09-20 [UPDATED 2020-06-15]

Modeller : [OD - UPDATED BY JM/BD - UPDATED BY JE]

Company : C.F. Crozier & Associates Inc.

License # : 3737016

#*****

RUN#:COMMAND#
R0001:C0001-----

START
[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 1]
[NRUN = 0001]
#*****

#*****Chicago 2yr 4-hr storm*****

#*****

R0001:C0002-----

CHICAGO STORM
[SDT= 5.00:SDUR= 4.00:PTOT= 31.55]
{A/B/C= 425.976/ 1.500/ .727: R=.9997}
#*****

#*****

#-----|-----|

#-----|-----PRE-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----PRE-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C0003-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 .819 No_date 3:25
6.96 .221 .000
[CN= 79.9: N= 3.00: Tp= 1.35]

#-----|-SITE AND SURROUNDING AREA-----|

R0001:C00004-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .167 No_date 2:26
4.24 .134 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00005-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 .819 No_date 3:25
6.96 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 .819 No_date 3:48
6.96 n/a .000
#-----|-WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00006-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 .819 No_date 3:48
6.96 n/a .000
+ 1.0 03:702 34.50 .167 No_date 2:26
4.24 n/a .000
SUM= 1.0 04:PreWC7 181.20 .924 No_date 3:40
6.44 n/a .000
R0001:C00007-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 .924 No_date 3:40
6.44 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----|

#-----|-----|

#-----|-PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|-PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00008-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .054 No_date 2:02
4.51 .143 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00009-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .029 No_date 1:58
4.21 .133 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00010-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .007 No_date 1:45
4.39 .139 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00011-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .045 No_date 1:53
4.68 .148 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----|-North (Catchment 2) Internal-----|

R0001:C00012-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .029 No_date 1:58
4.21 n/a .000
+ 1.0 03:2B-Pre .87 .007 No_date 1:45
4.39 n/a .000
SUM= 1.0 04:2A2B 5.43 .035 No_date 1:56
4.24 n/a .000
#-----|-North (Catchment 2) Total-----|

R0001:C00013-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .029 No_date 1:58
4.21 n/a .000
+ 1.0 03:2B-Pre .87 .007 No_date 1:45
4.39 n/a .000
+ 1.0 05:2C-Pre 5.91 .045 No_date 1:53
4.68 n/a .000
SUM= 1.0 04:2-Pre 11.34 .080 No_date 1:54

4.47 n/a .000
R0001:C00014-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .001 No_date 1:47
1.59 .051 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----

#-----|-----LANDS DRAINING TO NORTH SWM POND-----|

#-----|-----NORTH INLET-----|

R0001:C00015-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 .461 No_date 1:21
19.09 .605 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00016-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .271 No_date 1:20
16.01 .507 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00017-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .273 No_date 1:20
24.04 .762 .000

[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00018-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .228 No_date 1:20
19.69 .624 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00019-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .074 No_date 1:20
15.40 .488 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00020-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .009 No_date 1:44
4.94 .157 .000
[CN= 69.2: N= 3.00: Tp= .29]
#-----|-----NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00021-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .461 No_date 1:21
19.09 n/a .000 + 1.0 03:2C-1 2.64 .271 No_date 1:20
16.01 n/a .000 + 1.0 08:2C-2 1.30 .273 No_date 1:20
24.04 n/a .000 + 1.0 09:2C-3 1.97 .228 No_date 1:20
19.69 n/a .000 + 1.0 06:2B .87 .009 No_date 1:44
4.94 n/a .000 SUM= 1.0 07:NSWM1 10.63 1.225 No_date 1:20
17.88 n/a .000
#-----|-----

#-----|-----NORTH SWMP NORTH TOTAL-----|

```
R0001:C00022-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ADD HYD          1.0 01:2A-1          3.85      .461 No_date    1:21
19.09  n/a      .000
      +          1.0 03:2C-1          2.64      .271 No_date    1:20
16.01  n/a      .000
      +          1.0 08:2C-2          1.30      .273 No_date    1:20
24.04  n/a      .000
      +          1.0 09:2C-3          1.97      .228 No_date    1:20
19.69  n/a      .000
      +          1.0 05:2A-4          .70       .074 No_date    1:20
15.40  n/a      .000
      +          1.0 06:2B           .87       .009 No_date    1:44
4.94   n/a      .000
      SUM=        1.0 04:NSWM1        11.33     1.299 No_date    1:20
17.73  n/a      .000
#-----|
```

```
R0001:C00023-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ROUTE RESERVOIR -> 1.0 04:NSWM1          11.33     1.299 No_date    1:20
17.73  n/a      .000
      out <=      1.0 03:SWMF-N          11.33     .039 No_date    4:02
17.73  n/a      .000
      overflow <= 1.0 05:NOvf           .00       .000 No_date    0:00
.00   n/a      .000
      {MxStoUsed=.1623E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf=    0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|
```

```
R0001:C00024-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ADD HYD          1.0 03:SWMF-N          11.33     .039 No_date    4:02
17.73  n/a      .000
      +          1.0 05:NOvf           .00       .000 No_date    0:00
.00   n/a      .000
      SUM=        1.0 06:NORTH          11.33     .039 No_date    4:02
17.73  n/a      .000
#-----|-----|
```

```
#-----|-----|
```

```
#-----| -SOUTHERN CATCHMENT-----|
```

```
#-----| -LANDS DRAINING TO SOUTH SWM POND-----|
```

```
R0001:C00025-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 05:1A           8.20      .783 No_date    1:21
18.15  .575      .000
      [XIMP=.37:TIMP=.61]
      [LOSS= 2 :CN= 79.0]
      [Pervious   area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
      [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|
```

```
R0001:C00026-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ROUTE RESERVOIR -> 1.0 05:1A           8.20      .783 No_date    1:21
18.15  n/a      .000
      out <=      1.0 03:SWMF-S          8.20      .037 No_date    4:01
18.15  n/a      .000
      overflow <= 1.0 07:S0vf           .00       .000 No_date    0:00
.00   n/a      .000
      {MxStoUsed=.1131E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf=    0, TotDurOvf=
0.hrs}
#-----|-----|
```

```
#-----| -SOUTHEASTERN CATCHMENT-----|
```

```
R0001:C00027-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 08:3A           .49       .094 No_date    1:20
19.92  .631      .000
      [XIMP=.64:TIMP=.64]
      [LOSS= 2 :CN= 49.0]
      [Pervious   area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
      [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00028-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ROUTE RESERVOIR -> 1.0 08:3A           .49       .094 No_date    1:20
```

```
19.92 n/a .000
      out <= 1.0 09:BIORET .49 .009 No_date 1:45
19.92 n/a .000
      overflow <= 1.0 05:BIOOvf .00 .000 No_date 0:00
.00 n/a .000
      {MxStoUsed=.5203E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
R0001:C00029-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ROUTE RESERVOIR -> 1.0 05:BIOOvf .00 .000 No_date 0:00
.00 n/a .000
      * out <= 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
      overflow <= 1.0 01:DRYOvf 3.85 .000 No_date 0:00
.00 n/a .000
      {MxStoUsed=.0000E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00030-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ADD HYD 1.0 06:NORTH 11.33 .039 No_date 4:02
17.73 n/a .000
      + 1.0 03:SWMF-S 8.20 .037 No_date 4:01
18.15 n/a .000
      + 1.0 07:S0vf .00 .000 No_date 0:00
.00 n/a .000
      + 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
      + 1.0 01:DRYOvf 3.85 .000 No_date 0:00
.00 n/a .000
      SUM= 1.0 10:POSTSITE 23.38 .075 No_date 4:02
14.96 n/a .000
#-----|-----|

#-----|-----|

#-----|-----|

#-----|-----POST-DEVELOPMENT-----|
```

```
#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00031-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      CALIB NASHYD 1.0 01:701 137.80 .630 No_date 3:34
5.76 .183 .000
      [CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00032-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      SHIFT HYD -> 1.0 01:701 137.80 .630 No_date 3:34
5.76 n/a .000
      [LAG= 24.0 min]<- 1.0 02:701Shift 137.80 .630 No_date 3:57
5.76 n/a .000
#-----|-----|

#-----|-----POST DEV UNDEVELOPED AREA-----|

R0001:C00033-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      CALIB NASHYD 1.0 03:7021 22.98 .115 No_date 2:26
4.33 .137 .000
      [CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00034-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
```

```
mm-R.C.---DWFcms
  ADD HYD          1.0 02:701Shift    137.80    .630 No_date    3:57
5.76  n/a        .000
+
4.33  n/a        .000
+
14.96 n/a        .000
SUM=  1.0 04:PosWC7    184.16    .772 No_date    3:51
6.75  n/a        .000
R0001:C00035-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  SAVE HYD          1.0 04:PosWC7    184.16    .772 No_date    3:51
6.75  n/a        .000
      fname :PosWC7.0001

      remark:POST WC7
```

```
#-----|-----
```

```
#####
```

```
#####Chicago 5yr 4-hr storm#####
```

```
#####
```

```
R0001:C00036-----
```

```
-----
      CHICAGO STORM
      [SDT= 5.00:SDUR= 4.00:PTOT= 42.28]
      {A/B/C= 564.587/ 1.500/ .725: R=.9997}
#####
```

```
#####
```

```
#-----|-----
```

```
#-----|-----PRE-DEVELOPMENT-----|
```

```
#-----|-----OVERALL WC 7 FLOWS-----|
```

```
#-----|-----
```

```
#-----|-----PRE-LAND SWAP-----|
```

```
#-----|-----LANDS UPSTREAM OF SITE-----|
```

```
R0001:C00037-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  CALIB NASHYD          1.0 01:701          146.70    1.520 No_date    3:18
12.73 .301        .000
      [CN= 79.9: N= 3.00: Tp= 1.35]
#-----|-----SITE AND SURROUNDING AREA-----|
```

```
R0001:C00038-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  CALIB NASHYD          1.0 03:702          34.50    .338 No_date    2:22
8.20 .194        .000
      [CN= 69.1: N= 3.00: Tp= .70]
R0001:C00039-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  SHIFT HYD          -> 1.0 01:701          146.70    1.520 No_date    3:18
12.73 n/a        .000
      [LAG= 24.0 min]<- 1.0 02:          701    146.70    1.520 No_date    3:41
12.73 n/a        .000
#-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|
```

```
R0001:C00040-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ADD HYD          1.0 02:          701    146.70    1.520 No_date    3:41
12.73 n/a        .000
+
8.20 n/a        .000
      1.0 03:702          34.50    .338 No_date    2:22
```

SUM= 1.0 04:PreWC7 181.20 1.723 No_date 3:33
11.86 n/a .000
R0001:C00041-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 1.723 No_date 3:33
11.86 n/a .000
fname :PreWC7.0001
remark:PRE WC7

#-----|-----

#-----|-----

#-----|-----PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----

#-----|-----

#-----|-----PRE-DEVELOPMENT SWM QUANTITY-----

R0001:C00042-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .117 No_date 1:57
9.02 .213 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00043-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .065 No_date 1:54
8.55 .202 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00044-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .016 No_date 1:42
8.82 .209 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00045-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .099 No_date 1:49
9.26 .219 .000
[CN= 74.6: N= 3.00: Tp= .34]

#-----|-----North (Catchment 2) Internal-----|

R0001:C00046-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .065 No_date 1:54
8.55 n/a .000 + 1.0 03:2B-Pre .87 .016 No_date 1:42
8.82 n/a .000
SUM= 1.0 04:2A2B 5.43 .079 No_date 1:51
8.59 n/a .000
#-----|-----North (Catchment 2) Total-----|

R0001:C00047-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .065 No_date 1:54
8.55 n/a .000 + 1.0 03:2B-Pre .87 .016 No_date 1:42
8.82 n/a .000 + 1.0 05:2C-Pre 5.91 .099 No_date 1:49
9.26 n/a .000
SUM= 1.0 04:2-Pre 11.34 .178 No_date 1:50
8.94 n/a .000
R0001:C00048-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .003 No_date 1:45
3.25 .077 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----

#-----|-----LANDS DRAINING TO NORTH SWM POND-----|

#-----| -NORTH INLET-----|

R0001:C00049-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 .684 No_date 1:20
27.77 .657 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00050-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .373 No_date 1:20
23.69 .560 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00051-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .372 No_date 1:20
33.53 .793 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00052-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .331 No_date 1:20
28.81 .681 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00053-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .106 No_date 1:20
22.95 .543 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00054-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .017 No_date 1:43
9.11 .215 .000
[CN= 69.2: N= 3.00: Tp= .29]

#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00055-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .684 No_date 1:20
27.77 n/a .000 + 1.0 03:2C-1 2.64 .373 No_date 1:20
23.69 n/a .000 + 1.0 08:2C-2 1.30 .372 No_date 1:20
33.53 n/a .000 + 1.0 09:2C-3 1.97 .331 No_date 1:20
28.81 n/a .000 + 1.0 06:2B .87 .017 No_date 1:43
9.11 n/a .000 SUM= 1.0 07:NSWM1 10.63 1.762 No_date 1:20
26.13 n/a .000
#-----|

#-----| -NORTH SWMP NORTH TOTAL-----|

R0001:C00056-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .684 No_date 1:20
27.77 n/a .000 + 1.0 03:2C-1 2.64 .373 No_date 1:20
23.69 n/a .000 + 1.0 08:2C-2 1.30 .372 No_date 1:20
33.53 n/a .000 + 1.0 09:2C-3 1.97 .331 No_date 1:20
28.81 n/a .000 + 1.0 05:2A-4 .70 .106 No_date 1:20
22.95 n/a .000 + 1.0 06:2B .87 .017 No_date 1:43
9.11 n/a .000 SUM= 1.0 04:NSWM1 11.33 1.868 No_date 1:20
25.93 n/a .000
#-----|

R0001:C00057-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 1.868 No_date 1:20
25.93 n/a .000

```

                out <=    1.0 03:SWMF-N      11.33    .147 No_date    2:30
25.93  n/a    .000
                overflow <=    1.0 05:NOvf      .00    .000 No_date    0:00
.00  n/a    .000
      {MxStoUsed=.1965E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|
```

```

R0001:C00058-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ADD HYD                1.0 03:SWMF-N      11.33    .147 No_date    2:30
25.93  n/a    .000
      +      1.0 05:NOvf      .00    .000 No_date    0:00
.00  n/a    .000
      SUM=      1.0 06:NORTH      11.33    .147 No_date    2:30
25.93  n/a    .000
#-----|-----|
```

```
#-----|-----|
```

```
#-----| -SOUTERN CATCHMENT-----|
```

```
#-----| -LANDS DRAINING TO SOUTH SWM POND-----|
```

```

R0001:C00059-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      CALIB STANDHYD        1.0 05:1A          8.20    1.181 No_date    1:21
26.78 .633    .000
      [XIMP=.37:TIMP=.61]
      [LOSS= 2 :CN= 79.0]
      [Pervious  area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
      [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|
```

```

R0001:C00060-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ROUTE RESERVOIR ->    1.0 05:1A          8.20    1.181 No_date    1:21
26.78  n/a    .000
```

```

                out <=    1.0 03:SWMF-S      8.20    .099 No_date    2:36
26.78  n/a    .000
                overflow <=    1.0 07:SOvf      .00    .000 No_date    0:00
.00  n/a    .000
      {MxStoUsed=.1492E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=
0.hrs}
#-----|-----|
```

```
#-----| -SOUTHEASTERN CATCHMENT-----|
```

```

R0001:C00061-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      CALIB STANDHYD        1.0 08:3A          .49    .126 No_date    1:20
27.62 .653    .000
      [XIMP=.64:TIMP=.64]
      [LOSS= 2 :CN= 49.0]
      [Pervious  area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
      [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00062-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
```

```

      ROUTE RESERVOIR ->    1.0 08:3A          .49    .126 No_date    1:20
27.62  n/a    .000
                out <=    1.0 09:BIORET      .49    .012 No_date    1:46
27.62  n/a    .000
                overflow <=    1.0 05:BIOOvf      .00    .000 No_date    0:00
.00  n/a    .000
      {MxStoUsed=.7243E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=
0.hrs}
R0001:C00063-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
```

```

      ROUTE RESERVOIR ->    1.0 05:BIOOvf      .00    .000 No_date    0:00
.00  n/a    .000
      *      out <=    1.0 09:DRYPOND      .00    .000 No_date    0:00
.00  n/a    .000
                overflow <=    1.0 01:DRYOvf      3.85    .000 No_date    0:00
.00  n/a    .000
      {MxStoUsed=.0000E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|
```

```

R0001:C00064-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ADD HYD                1.0 06:NORTH      11.33    .147 No_date    2:30
25.93  n/a    .000
```

26.78	n/a	.000	+	1.0 03:SWMF-S	8.20	.099	No_date	2:36
			+	1.0 07:SOvf	.00	.000	No_date	0:00
.00	n/a	.000						
			+	1.0 09:DRYPOND	.00	.000	No_date	0:00
.00	n/a	.000						
			+	1.0 01:DRYOvf	3.85	.000	No_date	0:00
.00	n/a	.000						
			SUM=	1.0 10:POSTSITE	23.38	.246	No_date	2:32
21.96	n/a	.000						

#-----|-----

#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00065-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 1.247 No_date 3:24
11.25 .266 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00066-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 1.247 No_date 3:24

11.25 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 1.247 No_date 3:47
11.25 n/a .000
#-----|-----

#-----|-----POST DEV UNDEVELOPED AREA-----|

R0001:C00067-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .229 No_date 2:22
8.32 .197 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00068-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 1.247 No_date 3:47
11.25 n/a .000
+ 1.0 03:7021 22.98 .229 No_date 2:22
8.32 n/a .000
+ 1.0 10:POSTSITE 23.38 .246 No_date 2:32
21.96 n/a .000
SUM= 1.0 04:PosWC7 184.16 1.567 No_date 3:34
12.24 n/a .000
R0001:C00069-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 184.16 1.567 No_date 3:34
12.24 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----

#*****

#*****Chicago 10yr 4-hr storm*****

#*****

R0001:C00070-----

CHICAGO STORM
[SDT= 5.00:SDUR= 4.00:PTOT= 49.47]
{A/B/C= 656.948/ 1.500/ .724: R=.9997}
#*****

#*****

#-----|-----|

#-----| -PRE-DEVELOPMENT-----|

#-----| -OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----| -PRE-LAND SWAP-----|

#-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00071-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 2.063 No_date 3:15
17.15 .347 .000
[CN= 79.9: N= 3.00: Tp= 1.35]

#-----| -SITE AND SURROUNDING AREA-----|

R0001:C00072-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .477 No_date 2:20
11.37 .230 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00073-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 2.063 No_date 3:15
17.15 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 2.063 No_date 3:38
17.15 n/a .000
#-----| -WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00074-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 2.063 No_date 3:38
17.15 n/a .000
+ 1.0 03:702 34.50 .477 No_date 2:20
11.37 n/a .000
SUM= 1.0 04:PreWC7 181.20 2.345 No_date 3:30
16.05 n/a .000
R0001:C00075-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 2.345 No_date 3:30
16.05 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----|

#-----|-----|

#-----| -PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----| -PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00076-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .171 No_date 1:56
12.62 .255 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00077-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .095 No_date 1:53
12.04 .243 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00078-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .024 No_date 1:41
12.37 .250 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00079-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .144 No_date 1:48
12.92 .261 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----| -North (Catchment 2) Internal-----|

R0001:C00080-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .095 No_date 1:53
12.04 n/a .000 + 1.0 03:2B-Pre .87 .024 No_date 1:41
12.37 n/a .000
SUM= 1.0 04:2A2B 5.43 .116 No_date 1:50
12.09 n/a .000
#-----| -North (Catchment 2) Total-----|

R0001:C00081-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .095 No_date 1:53
12.04 n/a .000 + 1.0 03:2B-Pre .87 .024 No_date 1:41
12.37 n/a .000 + 1.0 05:2C-Pre 5.91 .144 No_date 1:48
12.92 n/a .000
SUM= 1.0 04:2-Pre 11.34 .260 No_date 1:49

12.52 n/a .000
R0001:C00082-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .005 No_date 1:44
4.66 .094 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----|

#-----|-----|

#-----| -POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----| -LANDS DRAINING TO NORTH SWM POND-----|

#-----| -NORTH INLET-----|

R0001:C00083-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 .840 No_date 1:20
33.84 .684 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00084-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .444 No_date 1:20
29.17 .590 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00085-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .440 No_date 1:20
40.02 .809 .000

```
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00086-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .412 No_date 1:20
35.16 .711 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00087-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .130 No_date 1:20
28.36 .573 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00088-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .024 No_date 1:42
12.40 .251 .000
[CN= 69.2: N= 3.00: Tp= .29]
#-----|NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|
```

```
R0001:C00089-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .840 No_date 1:20
33.84 n/a .000
+ 1.0 03:2C-1 2.64 .444 No_date 1:20
29.17 n/a .000
+ 1.0 08:2C-2 1.30 .440 No_date 1:20
40.02 n/a .000
+ 1.0 09:2C-3 1.97 .412 No_date 1:20
35.16 n/a .000
+ 1.0 06:2B .87 .024 No_date 1:42
12.40 n/a .000
SUM= 1.0 07:NSWM1 10.63 2.138 No_date 1:20
31.92 n/a .000
#-----|
```

#-----|NORTH SWMP NORTH TOTAL-----|

```
R0001:C00090-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .840 No_date 1:20
33.84 n/a .000
+ 1.0 03:2C-1 2.64 .444 No_date 1:20
29.17 n/a .000
+ 1.0 08:2C-2 1.30 .440 No_date 1:20
40.02 n/a .000
+ 1.0 09:2C-3 1.97 .412 No_date 1:20
35.16 n/a .000
+ 1.0 05:2A-4 .70 .130 No_date 1:20
28.36 n/a .000
+ 1.0 06:2B .87 .024 No_date 1:42
12.40 n/a .000
SUM= 1.0 04:NSWM1 11.33 2.268 No_date 1:20
31.70 n/a .000
#-----|
```

```
R0001:C00091-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 2.268 No_date 1:20
31.70 n/a .000
out <= 1.0 03:SWMF-N 11.33 .240 No_date 2:09
31.70 n/a .000
overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2161E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|NORTH CATCHMENT TOTAL-----|
```

```
R0001:C00092-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .240 No_date 2:09
31.70 n/a .000
+ 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 06:NORTH 11.33 .240 No_date 2:09
31.70 n/a .000
#-----|
```

#-----|

#-----| -SOUTHERN CATCHMENT-----|

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00093-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 1.499 No_date 1:21
32.85 .664 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|

R0001:C00094-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 1.499 No_date 1:21
32.85 n/a .000
out <= 1.0 03:SWMF-S 8.20 .163 No_date 2:12
32.85 n/a .000
overflow <= 1.0 07:S0vf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.1668E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----|

#-----| -SOUTHEASTERN CATCHMENT-----|

R0001:C00095-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .148 No_date 1:20
32.89 .665 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00096-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .148 No_date 1:20

32.89 n/a .000
out <= 1.0 09:BIORET .49 .015 No_date 1:43
32.89 n/a .000
overflow <= 1.0 05:BI00vf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.8498E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
R0001:C00097-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BI00vf .00 .000 No_date 0:00
.00 n/a .000
* out <= 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
overflow <= 1.0 01:DRY0vf 3.85 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.0000E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00098-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .240 No_date 2:09
31.70 n/a .000
+ 1.0 03:SWMF-S 8.20 .163 No_date 2:12
32.85 n/a .000
+ 1.0 07:S0vf .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 01:DRY0vf 3.85 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 23.38 .403 No_date 2:10
26.88 n/a .000
#-----|-----|

#-----|-----|

#-----|-----|

#-----| -POST-DEVELOPMENT-----|

#-----| -OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----| -POST-LAND SWAP-----|

#-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00099-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 1.737 No_date 3:20
15.52 .314 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00100-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 1.737 No_date 3:20
15.52 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 1.737 No_date 3:43
15.52 n/a .000
#-----|-----|

#-----| -POST DEV UNDEVELOPED AREA-----|

R0001:C00101-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .323 No_date 2:20
11.51 .233 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----| -WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00102-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV

mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 1.737 No_date 3:43
15.52 n/a .000
+ 1.0 03:7021 22.98 .323 No_date 2:20
11.51 n/a .000
+ 1.0 10:POSTSITE 23.38 .403 No_date 2:10
26.88 n/a .000
SUM= 1.0 04:PosWC7 184.16 2.170 No_date 3:29
16.46 n/a .000
R0001:C00103-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 184.16 2.170 No_date 3:29
16.46 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----|

#####

#####Chicago 25yr 4-hr storm#####

#####

R0001:C00104-----

CHICAGO STORM
[SDT= 5.00:SDUR= 4.00:PTOT= 58.02]
{A/B/C= 778.937/ 1.500/ .726: R=.9997}
#####

#####

#-----|-----|

#-----| -PRE-DEVELOPMENT-----|

#-----| -OVERALL WC 7 FLOWS-----|

#-----| -----|

#-----| -PRE-LAND SWAP-----|

#-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00105-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 2.776 No_date 3:13
22.86 .394 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----| -SITE AND SURROUNDING AREA-----|

R0001:C00106-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .669 No_date 2:19
15.60 .269 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00107-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 2.776 No_date 3:13
22.86 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 2.776 No_date 3:36
22.86 n/a .000
#-----| -WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00108-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 2.776 No_date 3:36
22.86 n/a .000
+ 1.0 03:702 34.50 .669 No_date 2:19
15.60 n/a .000

SUM= 1.0 04:PreWC7 181.20 3.163 No_date 3:27
21.47 n/a .000
R0001:C00109-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 3.163 No_date 3:27
21.47 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----| -----|

#-----| -----|

#-----| -PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----| -----|

#-----| -PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00110-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .245 No_date 1:54
17.39 .300 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00111-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .138 No_date 1:51
16.69 .288 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00112-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .034 No_date 1:40
17.09 .295 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00113-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .207 No_date 1:47
17.75 .306 .000
[CN= 74.6: N= 3.00: Tp= .34]

#-----|-North (Catchment 2) Internal-----|

R0001:C00114-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .138 No_date 1:51
16.69 n/a .000 + 1.0 03:2B-Pre .87 .034 No_date 1:40
17.09 n/a .000 SUM= 1.0 04:2A2B 5.43 .168 No_date 1:49
16.75 n/a .000
#-----|-North (Catchment 2) Total-----|

R0001:C00115-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .138 No_date 1:51
16.69 n/a .000 + 1.0 03:2B-Pre .87 .034 No_date 1:40
17.09 n/a .000 + 1.0 05:2C-Pre 5.91 .207 No_date 1:47
17.75 n/a .000 SUM= 1.0 04:2-Pre 11.34 .375 No_date 1:48
17.27 n/a .000
R0001:C00116-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .007 No_date 1:43
6.61 .114 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----|

#-----|-----|

#-----|-POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|-LANDS DRAINING TO NORTH SWM POND-----|

#-----|-NORTH INLET-----|

R0001:C00117-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 1.058 No_date 1:20
41.26 .711 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00118-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .537 No_date 1:20
35.94 .619 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00119-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .528 No_date 1:20
47.84 .825 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00120-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .527 No_date 1:20
42.88 .739 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00121-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .163 No_date 1:20
35.06 .604 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00122-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .033 No_date 1:42
16.76 .289 .000
[CN= 69.2: N= 3.00: Tp= .29]

#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00123-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 1.058 No_date 1:20
41.26 n/a .000
+ 1.0 03:2C-1 2.64 .537 No_date 1:20
35.94 n/a .000
+ 1.0 08:2C-2 1.30 .528 No_date 1:20
47.84 n/a .000
+ 1.0 09:2C-3 1.97 .527 No_date 1:20
42.88 n/a .000
+ 1.0 06:2B .87 .033 No_date 1:42
16.76 n/a .000
SUM= 1.0 07:NSWM1 10.63 2.655 No_date 1:20
39.04 n/a .000
#-----|

#-----| -NORTH SWMP NORTH TOTAL-----|

R0001:C00124-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 1.058 No_date 1:20
41.26 n/a .000
+ 1.0 03:2C-1 2.64 .537 No_date 1:20
35.94 n/a .000
+ 1.0 08:2C-2 1.30 .528 No_date 1:20
47.84 n/a .000
+ 1.0 09:2C-3 1.97 .527 No_date 1:20
42.88 n/a .000
+ 1.0 05:2A-4 .70 .163 No_date 1:20
35.06 n/a .000
+ 1.0 06:2B .87 .033 No_date 1:42
16.76 n/a .000
SUM= 1.0 04:NSWM1 11.33 2.818 No_date 1:20
38.79 n/a .000
#-----|

R0001:C00125-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 2.818 No_date 1:20
38.79 n/a .000

out <= 1.0 03:SWMF-N 11.33 .341 No_date 2:01
38.79 n/a .000
overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2448E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|

R0001:C00126-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .341 No_date 2:01
38.79 n/a .000
+ 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 06:NORTH 11.33 .341 No_date 2:01
38.79 n/a .000
#-----|

#-----|

#-----| -SOUTHERN CATCHMENT-----|

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00127-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 1.966 No_date 1:21
40.27 .694 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|

R0001:C00128-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 1.966 No_date 1:21
40.27 n/a .000

out <= 1.0 03:SWMF-S 8.20 .225 No_date 2:03
40.27 n/a .000
overflow <= 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.1930E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----|

#-----|-----SOUTHEASTERN CATCHMENT-----|

R0001:C00129-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .176 No_date 1:20
39.27 .677 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]

R0001:C00130-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .176 No_date 1:20
39.27 n/a .000
out <= 1.0 09:BIORET .46 .016 No_date 1:26
39.27 n/a .000
overflow <= 1.0 05:BI00vf .03 .033 No_date 1:26
39.27 n/a .000
{MxStoUsed=.8997E-02 m3, TotOvfVol=.1251E-02 m3, N-Ovf= 2, TotDurOvf=
0.hrs}

R0001:C00131-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BI00vf .03 .033 No_date 1:26
39.27 n/a .000
* out <= 1.0 09:DRYPOND .03 .006 No_date 1:37
39.67 n/a .000
overflow <= 1.0 01:DRY0vf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.7104E-03 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00132-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .341 No_date 2:01
38.79 n/a .000

+ 1.0 03:SWMF-S 8.20 .225 No_date 2:03
40.27 n/a .000
+ 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 09:DRYPOND .03 .006 No_date 1:37
39.67 n/a .000
+ 1.0 01:DRY0vf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 19.56 .571 No_date 2:01
39.41 n/a .000
#-----|-----|

#-----|-----|

#-----|-----|

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00133-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 2.386 No_date 3:16
21.09 .364 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00134-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 2.386 No_date 3:16

21.09 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 2.386 No_date 3:39
21.09 n/a .000
#-----|-----|

#-----|-----| -POST DEV UNDEVELOPED AREA-----|

R0001:C00135-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .451 No_date 2:19
15.76 .272 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----|-----| -WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00136-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 2.386 No_date 3:39
21.09 n/a .000
+ 1.0 03:7021 22.98 .451 No_date 2:19
15.76 n/a .000
+ 1.0 10:POSTSITE 19.56 .571 No_date 2:01
39.41 n/a .000
SUM= 1.0 04:PosWC7 180.34 2.968 No_date 3:24
22.40 n/a .000
R0001:C00137-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 180.34 2.968 No_date 3:24
22.40 n/a .000
fname :PosWC7.0001

remark:POST WC7
#-----|-----|

#-----|-----|

*****Chicago 50yr 4-hr storm*****

R0001:C00138-----

CHICAGO STORM
[SDT= 5.00:SDUR= 4.00:PTOT= 64.88]
{A/B/C= 866.281/ 1.500/ .725: R=.9997}

#-----|-----|

#-----|-----| -PRE-DEVELOPMENT-----|

#-----|-----| -OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----| -PRE-LAND SWAP-----|

#-----|-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00139-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 3.383 No_date 3:11
27.72 .427 .000
[CN= 79.9: N= 3.00: Tp= 1.35]

#-----|-SITE AND SURROUNDING AREA-----|

R0001:C00140-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .837 No_date 2:18
19.31 .298 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00141-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 3.383 No_date 3:11
27.72 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 3.383 No_date 3:34
27.72 n/a .000
#-----|-WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00142-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 3.383 No_date 3:34
27.72 n/a .000
+ 1.0 03:702 34.50 .837 No_date 2:18
19.31 n/a .000
SUM= 1.0 04:PreWC7 181.20 3.863 No_date 3:25
26.12 n/a .000
R0001:C00143-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 3.863 No_date 3:25
26.12 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----|

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#-----|-PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|-PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00144-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .309 No_date 1:54
21.55 .332 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00145-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .175 No_date 1:51
20.74 .320 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00146-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .044 No_date 1:40
21.20 .327 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00147-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .262 No_date 1:47
21.95 .338 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----|-North (Catchment 2) Internal-----|

R0001:C00148-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .175 No_date 1:51
20.74 n/a .000
+ 1.0 03:2B-Pre .87 .044 No_date 1:40
21.20 n/a .000
SUM= 1.0 04:2A2B 5.43 .214 No_date 1:48
20.82 n/a .000
#-----|-North (Catchment 2) Total-----|

R0001:C00149-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .175 No_date 1:51
20.74 n/a .000
+ 1.0 03:2B-Pre .87 .044 No_date 1:40
21.20 n/a .000
+ 1.0 05:2C-Pre 5.91 .262 No_date 1:47
21.95 n/a .000
SUM= 1.0 04:2-Pre 11.34 .475 No_date 1:47

21.41 n/a .000
R0001:C00150-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .009 No_date 1:43
8.38 .129 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----|

#-----|-----|

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|-----LANDS DRAINING TO NORTH SWM POND-----|

#-----|-----NORTH INLET-----|

R0001:C00151-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 1.215 No_date 1:20
47.34 .730 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00152-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .609 No_date 1:20
41.55 .640 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00153-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .604 No_date 1:20
54.19 .835 .000

[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00154-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .607 No_date 1:20
49.19 .758 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00155-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .187 No_date 1:20
40.61 .626 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00156-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .041 No_date 1:41
20.55 .317 .000
[CN= 69.2: N= 3.00: Tp= .29]
#-----|-----NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00157-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 1.215 No_date 1:20
47.34 n/a .000 + 1.0 03:2C-1 2.64 .609 No_date 1:20
41.55 n/a .000 + 1.0 08:2C-2 1.30 .604 No_date 1:20
54.19 n/a .000 + 1.0 09:2C-3 1.97 .607 No_date 1:20
49.19 n/a .000 + 1.0 06:2B .87 .041 No_date 1:41
20.55 n/a .000 SUM= 1.0 07:NSWM1 10.63 3.040 No_date 1:20
44.89 n/a .000
#-----|-----|

#-----|-----NORTH SWMP NORTH TOTAL-----|

R0001:C00158-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 1.215 No_date 1:20
47.34 n/a .000 + 1.0 03:2C-1 2.64 .609 No_date 1:20
41.55 n/a .000 + 1.0 08:2C-2 1.30 .604 No_date 1:20
54.19 n/a .000 + 1.0 09:2C-3 1.97 .607 No_date 1:20
49.19 n/a .000 + 1.0 05:2A-4 .70 .187 No_date 1:20
40.61 n/a .000 + 1.0 06:2B .87 .041 No_date 1:41
20.55 n/a .000 SUM= 1.0 04:NSWM1 11.33 3.227 No_date 1:20
44.63 n/a .000
#-----|

R0001:C00159-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 3.227 No_date 1:20
44.63 n/a .000 out <= 1.0 03:SWMF-N 11.33 .368 No_date 2:03
44.63 n/a .000 overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000 {MxStoUsed=.2792E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|

R0001:C00160-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .368 No_date 2:03
44.63 n/a .000 + 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000 SUM= 1.0 06:NORTH 11.33 .368 No_date 2:03
44.63 n/a .000
#-----|-----|

#-----|-----|

#-----| -SOUTHERN CATCHMENT-----|

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00161-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 2.287 No_date 1:21
46.37 .715 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|

R0001:C00162-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 2.287 No_date 1:21
46.37 n/a .000 out <= 1.0 03:SWMF-S 8.20 .240 No_date 2:07
46.36 n/a .000 overflow <= 1.0 07:S0vf .00 .000 No_date 0:00
.00 n/a .000 {MxStoUsed=.2226E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|-----|

#-----| -SOUTHEASTERN CATCHMENT-----|

R0001:C00163-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .196 No_date 1:20
44.48 .686 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00164-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .196 No_date 1:20

```
44.48 n/a .000
      out <= 1.0 09:BIORET .43 .016 No_date 1:22
44.48 n/a .000
      overflow <= 1.0 05:BIOOvf .06 .082 No_date 1:22
44.48 n/a .000
      {MxStoUsed=.8999E-02 m3, TotOvfVol=.2889E-02 m3, N-Ovf= 3, TotDurOvf=
0.hrs}
R0001:C00165-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ROUTE RESERVOIR -> 1.0 05:BIOOvf .06 .082 No_date 1:22
44.48 n/a .000
      out <= 1.0 09:DRYPOND .06 .008 No_date 1:39
44.66 n/a .000
      overflow <= 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
      {MxStoUsed=.1923E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00166-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      ADD HYD 1.0 06:NORTH 11.33 .368 No_date 2:03
44.63 n/a .000
      + 1.0 03:SWMF-S 8.20 .240 No_date 2:07
46.36 n/a .000
      + 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
      + 1.0 09:DRYPOND .06 .008 No_date 1:39
44.66 n/a .000
      + 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
      SUM= 1.0 10:POSTSITE 19.59 .614 No_date 2:03
45.35 n/a .000
#-----|-----|

#-----|-----|

#-----|-----|

#-----|-----POST-DEVELOPMENT-----|
```

```
#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00167-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      CALIB NASHYD 1.0 01:701 137.80 2.943 No_date 3:14
25.87 .399 .000
      [CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00168-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      SHIFT HYD -> 1.0 01:701 137.80 2.943 No_date 3:14
25.87 n/a .000
      [LAG= 24.0 min]<- 1.0 02:701Shift 137.80 2.943 No_date 3:37
25.87 n/a .000
#-----|-----|

#-----|-----POST DEV UNDEVELOPED AREA-----|

R0001:C00169-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
      CALIB NASHYD 1.0 03:7021 22.98 .563 No_date 2:18
19.48 .300 .000
      [CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00170-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
```

mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 2.943 No_date 3:37
25.87 n/a .000
+ 1.0 03:7021 22.98 .563 No_date 2:18
19.48 n/a .000
+ 1.0 10:POSTSITE 19.59 .614 No_date 2:03
45.35 n/a .000
SUM= 1.0 04:PosWC7 180.37 3.734 No_date 3:22
27.17 n/a .000
R0001:C00171-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 180.37 3.734 No_date 3:22
27.17 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----

#####

#####Chicago 100yr 4-hr storm#####

#####

R0001:C00172-----

CHICAGO STORM
[SDT= 5.00:SDUR= 4.00:PTOT= 71.43]
{A/B/C= 953.793/ 1.500/ .725: R=.9997}
#####

#####

#-----|-----

#-----|-----PRE-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----PRE-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00173-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 3.993 No_date 3:10
32.57 .456 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----|-----SITE AND SURROUNDING AREA-----|

R0001:C00174-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 1.010 No_date 2:17
23.08 .323 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00175-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 3.993 No_date 3:10
32.57 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 3.993 No_date 3:33
32.57 n/a .000
#-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00176-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 3.993 No_date 3:33
32.57 n/a .000
+ 1.0 03:702 34.50 1.010 No_date 2:17
23.08 n/a .000

SUM= 1.0 04:PreWC7 181.20 4.568 No_date 3:24
30.77 n/a .000
R0001:C00177-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 4.568 No_date 3:24
30.77 n/a .000
fname :PreWC7.0001
remark:PRE WC7

#-----|-----

#-----|-----

#-----|-----PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----

#-----|-----

#-----|-----PRE-DEVELOPMENT SWM QUANTITY-----

R0001:C00178-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .376 No_date 1:53
25.76 .361 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00179-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .214 No_date 1:50
24.86 .348 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00180-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .054 No_date 1:39
25.36 .355 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00181-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .318 No_date 1:46
26.19 .367 .000
[CN= 74.6: N= 3.00: Tp= .34]

#-----|-----North (Catchment 2) Internal-----|

R0001:C00182-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .214 No_date 1:50
24.86 n/a .000
+ 1.0 03:2B-Pre .87 .054 No_date 1:39
25.36 n/a .000
SUM= 1.0 04:2A2B 5.43 .261 No_date 1:48
24.94 n/a .000
#-----|-----North (Catchment 2) Total-----|

R0001:C00183-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .214 No_date 1:50
24.86 n/a .000
+ 1.0 03:2B-Pre .87 .054 No_date 1:39
25.36 n/a .000
+ 1.0 05:2C-Pre 5.91 .318 No_date 1:46
26.19 n/a .000
SUM= 1.0 04:2-Pre 11.34 .579 No_date 1:47
25.59 n/a .000
R0001:C00184-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .011 No_date 1:43
10.24 .143 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----

#-----|-----LANDS DRAINING TO NORTH SWM POND-----|

#-----| -NORTH INLET-----|

R0001:C00185-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 1.429 No_date 1:20
53.24 .745 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00186-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .683 No_date 1:20
47.03 .658 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00187-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .670 No_date 1:20
60.31 .844 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00188-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .728 No_date 1:20
55.28 .774 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00189-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .222 No_date 1:20
46.05 .645 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00190-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .049 No_date 1:41
24.40 .342 .000
[CN= 69.2: N= 3.00: Tp= .29]

#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00191-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 1.429 No_date 1:20
53.24 n/a .000 +
1.0 03:2C-1 2.64 .683 No_date 1:20
47.03 n/a .000 +
1.0 08:2C-2 1.30 .670 No_date 1:20
60.31 n/a .000 +
1.0 09:2C-3 1.97 .728 No_date 1:20
55.28 n/a .000 +
1.0 06:2B .87 .049 No_date 1:41
24.40 n/a .000 SUM=
1.0 07:NSWM1 10.63 3.517 No_date 1:20
50.58 n/a .000
#-----|

#-----| -NORTH SWMP NORTH TOTAL-----|

R0001:C00192-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 1.429 No_date 1:20
53.24 n/a .000 +
1.0 03:2C-1 2.64 .683 No_date 1:20
47.03 n/a .000 +
1.0 08:2C-2 1.30 .670 No_date 1:20
60.31 n/a .000 +
1.0 09:2C-3 1.97 .728 No_date 1:20
55.28 n/a .000 +
1.0 05:2A-4 .70 .222 No_date 1:20
46.05 n/a .000 +
1.0 06:2B .87 .049 No_date 1:41
24.40 n/a .000 SUM=
1.0 04:NSWM1 11.33 3.738 No_date 1:20
50.30 n/a .000
#-----|

R0001:C00193-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 3.738 No_date 1:20
50.30 n/a .000

```
out <= 1.0 03:SWMF-N 11.33 .395 No_date 2:05
50.30 n/a .000
overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.3168E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|
```

```
R0001:C00194-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .395 No_date 2:05
50.30 n/a .000
+ 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 06:NORTH 11.33 .395 No_date 2:05
50.30 n/a .000
#-----|-----|
```

```
#-----|-----|
```

```
#-----| -SOUTERN CATCHMENT-----|
```

```
#-----| -LANDS DRAINING TO SOUTH SWM POND-----|
```

```
R0001:C00195-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 2.580 No_date 1:21
52.28 .732 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|
```

```
R0001:C00196-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 2.580 No_date 1:21
52.28 n/a .000
```

```
out <= 1.0 03:SWMF-S 8.20 .254 No_date 2:10
52.27 n/a .000
overflow <= 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2537E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----|
```

```
#-----| -SOUTHEASTERN CATCHMENT-----|
```

```
R0001:C00197-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .217 No_date 1:20
49.52 .693 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
```

```
R0001:C00198-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .217 No_date 1:20
49.52 n/a .000
out <= 1.0 09:BIORET .40 .016 No_date 1:21
49.52 n/a .000
overflow <= 1.0 05:BI00vf .09 .155 No_date 1:21
49.52 n/a .000
{MxStoUsed=.9000E-02 m3, TotOvfVol=.4575E-02 m3, N-Ovf= 4, TotDurOvf=
1.hrs}
```

```
R0001:C00199-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BI00vf .09 .155 No_date 1:21
49.52 n/a .000
out <= 1.0 09:DRYPOND .09 .009 No_date 1:40
49.54 n/a .000
overflow <= 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.3287E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|
```

```
R0001:C00200-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .395 No_date 2:05
50.30 n/a .000
```

			+	1.0	03:SWMF-S	8.20	.254	No_date	2:10
52.27	n/a	.000							
			+	1.0	07:SOvf	.00	.000	No_date	0:00
.00	n/a	.000							
			+	1.0	09:DRYPOND	.09	.009	No_date	1:40
49.54	n/a	.000							
			+	1.0	01:DRYOvf	.00	.000	No_date	0:00
.00	n/a	.000							
		SUM=		1.0	10:POSTSITE	19.62	.658	No_date	2:05
51.12	n/a	.000							

#-----|-----

#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00201-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 3.505 No_date 3:12
30.65 .429 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00202-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 3.505 No_date 3:12

30.65 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 3.505 No_date 3:35
30.65 n/a .000
#-----|-----

#-----|-----POST DEV UNDEVELOPED AREA-----|

R0001:C00203-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .679 No_date 2:17
23.26 .326 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00204-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 3.505 No_date 3:35
30.65 n/a .000
+ 1.0 03:7021 22.98 .679 No_date 2:17
23.26 n/a .000
+ 1.0 10:POSTSITE 19.62 .658 No_date 2:05
51.12 n/a .000
SUM= 1.0 04:PosWC7 180.40 4.460 No_date 3:26
31.94 n/a .000
R0001:C00205-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 180.40 4.460 No_date 3:26
31.94 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----

#-----|-----

```
R0001:C00206-----
-----
FINISH
-----
*****
*****
      WARNINGS / ERRORS / NOTES
      -----
R0001:C00029  ROUTE RESERVOIR

*** WARNING: Inflow hydrograph is dry.

R0001:C00063  ROUTE RESERVOIR

*** WARNING: Inflow hydrograph is dry.

R0001:C00097  ROUTE RESERVOIR

*** WARNING: Inflow hydrograph is dry.

R0001:C00131  ROUTE RESERVOIR

*** WARNING: Outflow volume is less than inflow volume.

      Simulation ended on 2026-06-25      at 14:42:18
=====
=====
```

12-Hour SCS Input File

```

Metric units
**
** Project Name: [HOME FARM]      Project Number: [721-3464]
** Date       : 2021-10-25
** Modeller   : [JE]
** Company    : C.F. Crozier & Associates Inc.
** License #  : 3737016
**
START          TZERO=[0.0], METOUT=[2], NSTORM=[0], NRUN=[0]
**%           [ ] <-storm filename, one per line for NSTORM time
**
**
**                               2yr SCS Storm (12hr)
**
MASS STORM     PTOTAL=[45.39](mm), CSDDT=[1](min),
               CURVE_FILENAME=["SCS12HII.mst"]
**
**%-|-----|--|
**%|-----|--|
**#|-----|--|
**#|-----|--|
**#|-----|--PRE-DEVELOPMENT--|
**#|-----|--OVERALL WC 7 FLOWS---|
**#|-----|--|
**#|-----|--PRE-LAND SWAP---|
**#|-----|--LANDS UPSTREAM OF SITE----|
**%|-----|--|
CALIB NASHYD   ID=[1], NHYD=["701"], DT=[1]min, AREA=[146.70](ha),
               DWF=[0](cms), CN/C=[79.9], IA=[6.7](mm),
               N=[3], TP=[1.35]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1
**#|-----|--SITE AND SURROUNDING AREA-----|
**%|-----|--|
CALIB NASHYD   ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
               DWF=[0](cms), CN/C=[69.1], IA=[7.4](mm),
               N=[3], TP=[0.7]hrs,
               RAINFALL=[ , , , ](mm/hr), END=-1
**%|-----|--|
SHIFT HYD      Idout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
**#|-----|--WC7 TOTAL AT LAKESHORE RD--PRE DEV---|
**%|-----|--|
ADD HYD        IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
**%|-----|--|
SAVE HYD       ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
               HYD_COMMENT=["PRE WC7"]
**#|-----|--|

```

*%-----	
*#-----	
*#-----	-PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----
*#-----	
*#-----	-PRE-DEVELOPMENT SWM QUANTITY-----
*%-----	
CALIB NASHYD	ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha), DWF=[0](cms), CN/C=[74.3], IA=[9.27](mm), N=[3], TP=[0.42]hrs, RAINFALL=[, , ,](mm/hr), END=-1
*%-----	
CALIB NASHYD	ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha), DWF=[0](cms), CN/C=[73.5], IA=[9.7](mm), N=[3], TP=[0.38]hrs, RAINFALL=[, , ,](mm/hr), END=-1
*%-----	
CALIB NASHYD	ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha), DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm), N=[3], TP=[0.26]hrs, RAINFALL=[, , ,](mm/hr), END=-1
*%-----	
CALIB NASHYD	ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha), DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm), N=[3], TP=[0.34]hrs, RAINFALL=[, , ,](mm/hr), END=-1
*%-----	
*#-----	-North (Catchment 2) Internal-----
*#-----	
ADD HYD	IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*%-----	
*#-----	-North (Catchment 2) Total-----
*#-----	
ADD HYD	IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%-----	
CALIB NASHYD	ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha), DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm), N=[3], TP=[0.29]hrs, RAINFALL=[, , ,](mm/hr), END=-1
*%-----	
*#-----	
*#-----	
*#-----	-POST-DEVELOPMENT QUANTITY CONTROL MODEL-----

```

*#-----|-----|
*#-----|LANDS DRAINING TO NORTH SWM POND-----|
*#-----|NORTH INLET-----|
*#-----|-----|
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[160](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[80](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[133](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[93](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[68](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|

```

```

CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1

```

```

*#-----|NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|NORTH SWMP NORTH TOTAL-----|
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021 ]
[ 0.024 , 0.066 ]
[ 0.033 , 0.116 ]
[ 0.040 , 0.174 ]
[ 0.334 , 0.236 ]
[ 0.384 , 0.300 ]
[ 0.429 , 0.367 ]
[ 0.469 , 0.437 ]
[ 0.488 , 0.473 ]
[ 1.316 , 0.548 ]
[ 2.305 , 0.587 ]
[ 3.749 , 0.630 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]
*#-----|-----|
*#-----|NORTH CATCHMENT TOTAL-----|
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----|
*#-----|-----|
*#-----|SOUTHERN CATCHMENT-----|
*#-----|LANDS DRAINING TO SOUTH SWM POND-----|
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),

```

```

TABLE of ( OUTFLOW-STORAGE ) values
      (cms) - (ha-m)
      [ 0.0 , 0.0 ]
      [ 0.008, 0.015]
      [ 0.024 , 0.048]
      [ 0.033 , 0.088]
      [ 0.040 , 0.133]
      [ 0.219 , 0.182]
      [ 0.246 , 0.234]
      [ 0.270 , 0.291]
      [ 0.293 , 0.352]
      [ 0.303 , 0.383]
      [ 0.964 , 0.450]
      [ 1.678 , 0.485]
      [ -1 , -1 ] (max twenty pts)
      IDovf=[7], NHYDovf=["SOvf"]
*#-----|-----
*#-----|-----SOUTHEASTERN CATCHMENT-----|
*#-----|-----
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----Bioretention-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
      (cms) - (ha-m)
      [ 0.0 , 0.0 ]
      [ 0.002 ,0.001]
      [ 0.007, 0.004]
      [ 0.011, 0.007]
      [ 0.016 ,0.009]
      [ -1 , -1 ] (max twenty pts)
      IDovf=[5], NHYDovf=["BIOOvf"]
*#-----|-----
*#-----|-----Dry Pond-----|
ROUTE RESERVOIR IDout=[9], NHYD=["DRYPOND"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
      (cms) - (ha-m)
      [ 0.0 , 0.0 ]
      [ 0.005, 0.000]
      [ 0.009, 0.003]
      [ 0.010 ,0.006]
      [ 0.012 ,0.010]

```

```

      [ 0.014 ,0.017]
      [ 0.014 ,0.020]
      [ 0.040 ,0.028]
      [ 0.043 ,0.040]
      [ -1 , -1 ] (max twenty pts)
      IDovf=[1], NHYDovf=["DRYOvf"]
*#-----|-----
*#-----|-----SITE TOTAL-----|
ADD HYD IDsum=[10], NHYD=["POSTSITE"], IDs to add=[6,3,7,9,1]
*#-----|-----
*#-----|-----
*#-----|-----
*#-----|-----
*#-----|-----POST-DEVELOPMENT-----|
*#-----|-----OVERALL WC 7 FLOWS-----|
*#-----|-----
*#-----|-----POST-LAND SWAP-----|
*#-----|-----LANDS UPSTREAM OF SITE-----|
*#-----|-----
CALIB NASHYD ID=[1], NHYD=["701"], DT=[1]min, AREA=[137.8](ha),
DWF=[0](cms), CN/C=[79.9], IA=[9.27](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----
SHIFT HYD IDout=[2], NHYD=["701Shift"], IDin=[1], TLAG=[24](min)
*#-----|-----
*#-----|-----POST DEV UNDEVELOPED AREA-----|
*#-----|-----
CALIB NASHYD ID=[3], NHYD=["7021"], DT=[1]min, AREA=[22.98](ha),
DWF=[0](cms), CN/C=[69.1], IA=[7.1](mm),
N=[3], TP=[0.7]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----
*#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|
*#-----|-----
ADD HYD IDsum=[4], NHYD=["PosWC7"], IDs to add=[2,3,10]
*#-----|-----
*#-----|-----
*#-----|-----
SAVE HYD ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
HYD_COMMENT=["POST WC7"]
*#-----|-----

```

```

*****
*****

```



```

XIMP=[0.386], TIMP=[0.386], DWF=[0](cms),LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[80](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[133](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
XIMP=[0.750], TIMP=[0.750], DWF=[0](cms),LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[93](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
XIMP=[0.386], TIMP=[0.695], DWF=[0](cms),LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[68](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----
CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----
*#-----|-----
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values

```

```

(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021]
[ 0.024 , 0.066]
[ 0.033 , 0.116]
[ 0.040 , 0.174]
[ 0.334 , 0.236]
[ 0.384 , 0.300]
[ 0.429 , 0.367]
[ 0.469 , 0.437]
[ 0.488 , 0.473]
[ 1.316 , 0.548]
[ 2.305 , 0.587]
[ 3.749 , 0.630]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]
*%-----|-----
*#-----|-----
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----
*#-----|-----
*#-----|-----
*#-----|-----
*#-----|-----
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----
*%-----|-----
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015]
[ 0.024 , 0.048]
[ 0.033 , 0.088]
[ 0.040 , 0.133]
[ 0.219 , 0.182]
[ 0.246 , 0.234]
[ 0.270 , 0.291]
[ 0.293 , 0.352]
[ 0.303 , 0.383]
[ 0.964 , 0.450]
[ 1.678 , 0.485]

```



```

*%-----|-----|
CALIB NASHYD      ID=[1], NHYD=["701"], DT=[1]min, AREA=[146.70](ha),
DWF=[0](cms),   CN/C=[79.9], IA=[6.7](mm),
N=[3], TP=[1.35]hrs,
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
*#-----|-----|
*%-----|-----|
CALIB NASHYD      ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
DWF=[0](cms),   CN/C=[69.1], IA=[7.4](mm),
N=[3], TP=[0.7]hrs,
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
SHIFT HYD         IDout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
*%-----|-----|
*#-----|-----|
*%-----|-----|
ADD HYD           IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
*%-----|-----|
*%-----|-----|
SAVE HYD          ID=[4],   # OF PCYCLES=[1], ICASEsh=[1]
HYD_COMMENT=["PRE WC7"]
*#-----|-----|

*%-----|-----|
*%-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB NASHYD      ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha),
DWF=[0](cms),   CN/C=[74.3], IA=[9.27](mm),
N=[3], TP=[0.42]hrs,
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
CALIB NASHYD      ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha),
DWF=[0](cms),   CN/C=[73.5], IA=[9.7](mm),
N=[3], TP=[0.38]hrs,
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
CALIB NASHYD      ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms),   CN/C=[73.9], IA=[9.4](mm),
N=[3], TP=[0.26]hrs,
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
CALIB NASHYD      ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
DWF=[0](cms),   CN/C=[74.6], IA=[8.97](mm),
N=[3], TP=[0.34]hrs,

```

```

RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
*#-----|-----|
*%-----|-----|
ADD HYD           IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*%-----|-----|
*#-----|-----|
*%-----|-----|
ADD HYD           IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%-----|-----|
*%-----|-----|
CALIB NASHYD      ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
DWF=[0](cms),   CN/C=[43.3], IA=[7.72](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD    ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[160](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
CALIB STANDHYD    ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[80](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[133](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr),  END=-1
*%-----|-----|
CALIB STANDHYD    ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),

```

```

Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[93](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*%------|-----
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*%------|-----
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[68](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*%------|-----
CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----
*#-----|-----
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021]
[ 0.024 , 0.066]
[ 0.033 , 0.116]
[ 0.040 , 0.174]
[ 0.334 , 0.236]
[ 0.384 , 0.300]
[ 0.429 , 0.367]
[ 0.469 , 0.437]
[ 0.488 , 0.473]
[ 1.316 , 0.548]
[ 2.305 , 0.587]

```

```

[ 3.749 , 0.630]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]
*%------|-----
*#-----|-----
-NORTH CATCHMENT TOTAL-----|
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----
*#-----|-----
*#-----|-----
-SOUTHERN CATCHMENT-----|
*#-----|-----
-LANDS DRAINING TO SOUTH SWM POND-----|
*%------|-----
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----
-SOUTH SWM POND-----|
*%------|-----
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015]
[ 0.024 , 0.048]
[ 0.033 , 0.088]
[ 0.040 , 0.133]
[ 0.219 , 0.182]
[ 0.246 , 0.234]
[ 0.270 , 0.291]
[ 0.293 , 0.352]
[ 0.303 , 0.383]
[ 0.964 , 0.450]
[ 1.678 , 0.485]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["SOvf"]
*#-----|-----
*#-----|-----
-SOUTHEASTERN CATCHMENT-----|
*%------|-----
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1

```



```

*%-----|-----|
*#-----|WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|
*%-----|-----|
ADD HYD      IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
*%-----|-----|
*%-----|-----|
SAVE HYD      ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
              HYD_COMMENT=["PRE WC7"]
*#-----|-----|

*%-----|-----|
*%-----|-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|PRE-DEVELOPMENT SWM QUANTITY-----|
*%-----|-----|
CALIB NASHYD   ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha),
              DWF=[0](cms), CN/C=[74.3], IA=[9.27](mm),
              N=[3], TP=[0.42]hrs,
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD   ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha),
              DWF=[0](cms), CN/C=[73.5], IA=[9.7](mm),
              N=[3], TP=[0.38]hrs,
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD   ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
              DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm),
              N=[3], TP=[0.26]hrs,
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD   ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
              DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm),
              N=[3], TP=[0.34]hrs,
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
*#-----|North (Catchment 2) Internal-----|
*%-----|-----|
ADD HYD      IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*%-----|-----|
*#-----|North (Catchment 2) Total-----|
*%-----|-----|
ADD HYD      IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%-----|-----|
*%-----|-----|
CALIB NASHYD   ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
              DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm),

```

```

N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|LANDS DRAINING TO NORTH SWM POND-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
              XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
              SCS curve number CN=[79.0],
              Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
              LGP=[17](m), MNP=[0.25], SCP=[0](min),
              Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
              LGI=[160](m), MNI=[0.013], SCI=[0](min),
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
              XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
              SCS curve number CN=[79.0],
              Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
              LGP=[80](m), MNP=[0.25], SCP=[0](min),
              Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
              LGI=[133](m), MNI=[0.013], SCI=[0](min),
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
              XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
              SCS curve number CN=[79.0],
              Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
              LGP=[30](m), MNP=[0.25], SCP=[0](min),
              Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
              LGI=[93](m), MNI=[0.013], SCI=[0](min),
              RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
              XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
              SCS curve number CN=[79.0],
              Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
              LGP=[30](m), MNP=[0.25], SCP=[0](min),
              Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
              LGI=[115](m), MNI=[0.013], SCI=[0](min),
              RAINFALL=[ , , , , ](mm/hr), END=-1

```

```

*%-----|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[68](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
*#-----|-----|
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021]
[ 0.024 , 0.066]
[ 0.033 , 0.116]
[ 0.040 , 0.174]
[ 0.334 , 0.236]
[ 0.384 , 0.300]
[ 0.429 , 0.367]
[ 0.469 , 0.437]
[ 0.488 , 0.473]
[ 1.316 , 0.548]
[ 2.305 , 0.587]
[ 3.749 , 0.630]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]
*%-----|-----|
*#-----|-----|
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],

```

```

SCS curve number CN=[79.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*#-----|-----|
*%-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015]
[ 0.024 , 0.048]
[ 0.033 , 0.088]
[ 0.040 , 0.133]
[ 0.219 , 0.182]
[ 0.246 , 0.234]
[ 0.270 , 0.291]
[ 0.293 , 0.352]
[ 0.303 , 0.383]
[ 0.964 , 0.450]
[ 1.678 , 0.485]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["SOvf"]
*#-----|-----|
*#-----|-----|
*%-----|-----|
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , ](mm/hr), END=-1
*%-----|-----|
*#-----|-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.002 , 0.001]
[ 0.007 , 0.004]
[ 0.011 , 0.007]
[ 0.016 , 0.009]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["BIOvf"]
*%-----|-----|

```



```

DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1

*#-----|NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|
*#-----|NORTH SWMP NORTH TOTAL-----|
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021]
[ 0.024 , 0.066]
[ 0.033 , 0.116]
[ 0.040 , 0.174]
[ 0.334 , 0.236]
[ 0.384 , 0.300]
[ 0.429 , 0.367]
[ 0.469 , 0.437]
[ 0.488 , 0.473]
[ 1.316 , 0.548]
[ 2.305 , 0.587]
[ 3.749 , 0.630]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]
*#-----|
*#-----|NORTH CATCHMENT TOTAL-----|
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|
*#-----|
*#-----|SOUTHERN CATCHMENT-----|
*#-----|LANDS DRAINING TO SOUTH SWM POND-----|
*#-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAPER=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|SOUTH SWM POND-----|
*#-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values

```

```

(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015]
[ 0.024 , 0.048]
[ 0.033 , 0.088]
[ 0.040 , 0.133]
[ 0.219 , 0.182]
[ 0.246 , 0.234]
[ 0.270 , 0.291]
[ 0.293 , 0.352]
[ 0.303 , 0.383]
[ 0.964 , 0.450]
[ 1.678 , 0.485]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["SOvf"]
*#-----|
*#-----|SOUTHEASTERN CATCHMENT-----|
*#-----|
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious surfaces: IAPER=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----Bioretention-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.002 , 0.001]
[ 0.007 , 0.004]
[ 0.011 , 0.007]
[ 0.016 , 0.009]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["BIOovf"]
*#-----|
*#-----|Dry Pond-----|
ROUTE RESERVOIR IDout=[9], NHYD=["DRYPOND"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.005 , 0.000]
[ 0.009 , 0.003]
[ 0.010 , 0.006]
[ 0.012 , 0.010]
[ 0.014 , 0.017]

```



```

DWF=[0](cms), CN/C=[73.5],IA =[9.7](mm),
N=[3],TP=[0.38]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB NASHYD ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm),
N=[3],TP=[0.26]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB NASHYD ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm),
N=[3],TP=[0.34]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
*#-----|-----
*#-----|-----North (Catchment 2) Internal-----|-----
*%------|-----
ADD HYD IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*%------|-----
*#-----|-----North (Catchment 2) Total-----|-----
*%------|-----
ADD HYD IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%------|-----
*#-----|-----
CALIB NASHYD ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm),
N=[3],TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----

*#-----|-----
*#-----|-----
*#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|-----
*#-----|-----
*#-----|-----LANDS DRAINING TO NORTH SWM POND-----|-----
*#-----|-----NORTH INLET-----|-----
*%------|-----
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[160](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
XIMP=[0.386], TIMP=[0.386], DWF=[0](cms),LOSS=[2],

```

```

SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[80](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[133](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
XIMP=[0.750], TIMP=[0.750], DWF=[0](cms),LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[93](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
XIMP=[0.386], TIMP=[0.695], DWF=[0](cms),LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[68](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----
CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3],TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|-----
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----
*#-----|-----NORTH SWMP NORTH TOTAL-----|-----
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)

```



```

**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
CALIB NASHYD      ID=[1], NHYD=["701"], DT=[1]min, AREA=[137.8](ha),
                  DWF=[0](cms), CN/C=[79.9], IA=[9.27](mm),
                  N=[3], TP=[1.35]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
SHIFT HYD        IDout=[2], NHYD=["701Shift"], IDin=[1], TLAG=[24](min)
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
CALIB NASHYD      ID=[3], NHYD=["7021"], DT=[1]min, AREA=[22.98](ha),
                  DWF=[0](cms), CN/C=[69.1], IA=[7.1](mm),
                  N=[3], TP=[0.7]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
ADD HYD          IDsum=[4], NHYD=["PosWC7"], IDs to add=[2,3,10]
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
SAVE HYD         ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
                  HYD_COMMENT=["POST WC7"]
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
**#-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
FINISH

```

12-Hour SCS Output File

```
=====
=====
SSSSS W W M M H H Y Y M M 000 222 000 11
77777 =====
S W W W MM MM H H Y Y MM MM 0 0 2 0 0 11
7 7
SSSSS W W W M M M HHHH Y M M 0 0 2 0 0 11
7 Ver4.05.0
S W W M M H H Y M M 0 0 222 0 0 11
7 APR 2017
SSSSS W W M M H H Y M M 000 2 0 0 11
7 =====
2 0 0 11
7 # 3737016
StormWater Management HYdrologic Model 222 000 11
7 =====

*****
*****
***** SWMHYMO Ver4.05.0
*****
***** A single event and continuous hydrologic simulation model
*****
***** based on the principles of HYMO and its successors
*****
***** OTTHYMO-83 and OTTHYMO-89.
*****

*****
*****
***** Distributed by: J.F. Sabourin and Associates Inc.
*****
***** Ottawa, Ontario: (613) 836-3884
*****
***** Gatineau, Quebec: (819) 243-6858
*****
***** E-Mail: swmhymo@jfsa.com
*****

*****
*****

+++++
+++++
+++++ Licensed user: C.F. Crozier & Associates Inc.
+++++
```

```
+++++ Collingwood SERIAL#:3737016
+++++

+++++
+++++

*****
*****
***** +++++ PROGRAM ARRAY DIMENSIONS +++++
*****
***** Maximum value for ID numbers : 11
*****
***** Max. number of rainfall points: 105408
*****
***** Max. number of flow points : 105408
*****

*****
*****

***** S U M M A R Y O U T P U T
*****

*****
*****
***** RUN DATE: 2026-06-25 TIME: 14:47:17 RUN COUNTER: 000004
*****
*****

*****
*****
***** * Input file: J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design\_Rental\Civil_Water\*
***** SWM\SWMHYMO\SCS12\SCS12.dat
*****
***** * Output file: J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design\_Rental\Civil_Water\*
***** SWM\SWMHYMO\SCS12\SCS12.out
*****
***** * Summary file: J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design\_Rental\Civil_Water\*
***** SWM\SWMHYMO\SCS12\SCS12.sum
*****
***** * User comments:
*****
*****
1: _____
*****
```

2: _____
*
*
3: _____
*

#*****

Project Name: [HOME FARM] Project Number: [721-3464]

Date : 2021-10-25

Modeller : [JE]

Company : C.F. Crozier & Associates Inc.

License # : 3737016

#*****

RUN#:COMMAND#
R0001:C0001-----

START
[TZERO = .00 hrs on 0]
[METOUT= 2 (1=imperial, 2=metric output)]
[NSTORM= 0]
[NRUN = 0001]
#*****

#*****

2yr SCS Storm (12hr)

#*****

#*****

R0001:C0002-----

MASS STORM
Filename = J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design_Renta
Comment = 12 hour SCS II storm mass curve
[SDT= 1.00:SDUR= 12.00:PTOT= 45.39]
#*****

#-----|-----

#-----|-----

#-----|-----PRE-DEVELOPMENT-----

#-----|-----OVERALL WC 7 FLOWS-----

#-----|-----

#-----|-----PRE-LAND SWAP-----

#-----|LANDS UPSTREAM OF SITE-----|

R0001:C00003-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 1.562 No_date 7:30
14.59 .321 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----|SITE AND SURROUNDING AREA-----|

R0001:C00004-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .383 No_date 6:44
9.52 .210 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00005-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 1.562 No_date 7:30
14.59 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 1.562 No_date 7:53
14.59 n/a .000
#-----|WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00006-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 1.562 No_date 7:53
14.59 n/a .000
+ 1.0 03:702 34.50 .383 No_date 6:44
9.52 n/a .000
SUM= 1.0 04:PreWC7 181.20 1.755 No_date 7:44
13.63 n/a .000
R0001:C00007-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 1.755 No_date 7:44
13.63 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----|

#-----|-----|

#-----|PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00008-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .143 No_date 6:23
10.52 .232 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00009-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .081 No_date 6:20
10.01 .221 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00010-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .021 No_date 6:11
10.30 .227 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00011-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .124 No_date 6:16
10.79 .238 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----|North (Catchment 2) Internal-----|

R0001:C00012-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .081 No_date 6:20
10.01 n/a .000
+ 1.0 03:2B-Pre .87 .021 No_date 6:11
10.30 n/a .000
SUM= 1.0 04:2A2B 5.43 .099 No_date 6:17
10.06 n/a .000
#-----|North (Catchment 2) Total-----|

```

R0001:C00013-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  ADD HYD          1.0 02:2A-Pre          4.56      .081 No_date    6:20
10.01  n/a      .000
      +          1.0 03:2B-Pre          .87      .021 No_date    6:11
10.30  n/a      .000
      +          1.0 05:2C-Pre          5.91      .124 No_date    6:16
10.79  n/a      .000
      SUM=        1.0 04:2-Pre          11.34      .223 No_date    6:17
10.44  n/a      .000
R0001:C00014-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  CALIB NASHYD      1.0 06:3A-Pre          .49      .004 No_date    6:13
3.83 .084      .000
  [CN= 43.3: N= 3.00: Tp= .29]
#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----

#-----|-----LANDS DRAINING TO NORTH SWM POND-----|

#-----|-----NORTH INLET-----|

R0001:C00015-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 01:2A-1          3.85      .417 No_date    6:00
30.37 .669      .000
  [XIMP=.46:TIMP=.61]
  [LOSS= 2 :CN= 79.0]
  [Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
  [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00016-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

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```

mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 03:2C-1          2.64      .189 No_date    6:00
26.03 .573      .000
  [XIMP=.39:TIMP=.39]
  [LOSS= 2 :CN= 79.0]
  [Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
  [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00017-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 08:2C-2          1.30      .173 No_date    6:00
36.32 .800      .000
  [XIMP=.75:TIMP=.75]
  [LOSS= 2 :CN= 79.0]
  [Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
  [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00018-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 09:2C-3          1.97      .218 No_date    6:00
31.53 .695      .000
  [XIMP=.39:TIMP=.69]
  [LOSS= 2 :CN= 79.0]
  [Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
  [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00019-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 05:2A-4          .70      .062 No_date    6:00
25.26 .557      .000
  [XIMP=.36:TIMP=.36]
  [LOSS= 2 :CN= 79.0]
  [Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
  [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00020-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  CALIB NASHYD      1.0 06:2B          .87      .020 No_date    6:12
10.49 .231      .000
  [CN= 69.2: N= 3.00: Tp= .29]
#-----|-----NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00021-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
  ADD HYD          1.0 01:2A-1          3.85      .417 No_date    6:00
30.37  n/a      .000
      +          1.0 03:2C-1          2.64      .189 No_date    6:00
26.03  n/a      .000
      +          1.0 08:2C-2          1.30      .173 No_date    6:00
36.32  n/a      .000
      +          1.0 09:2C-3          1.97      .218 No_date    6:00
31.53  n/a      .000

```

		+	1.0 06:2B	.87	.020 No_date	6:12
10.49	n/a	.000				
		SUM=	1.0 07:NSWM1	10.63	1.009 No_date	6:00
28.61	n/a	.000				
#	-----					

#-----| -NORTH SWMP NORTH TOTAL-----|

R0001:C00022-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV						
mm-R.C.---DWFcms						
		ADD HYD	1.0 01:2A-1	3.85	.417 No_date	6:00
30.37	n/a	.000				
		+	1.0 03:2C-1	2.64	.189 No_date	6:00
26.03	n/a	.000				
		+	1.0 08:2C-2	1.30	.173 No_date	6:00
36.32	n/a	.000				
		+	1.0 09:2C-3	1.97	.218 No_date	6:00
31.53	n/a	.000				
		+	1.0 05:2A-4	.70	.062 No_date	6:00
25.26	n/a	.000				
		+	1.0 06:2B	.87	.020 No_date	6:12
10.49	n/a	.000				
		SUM=	1.0 04:NSWM1	11.33	1.072 No_date	6:00
28.40	n/a	.000				
#	-----					

R0001:C00023-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV						
mm-R.C.---DWFcms						
		ROUTE RESERVOIR ->	1.0 04:NSWM1	11.33	1.072 No_date	6:00
28.40	n/a	.000				
		out <=	1.0 03:SWMF-N	11.33	.150 No_date	6:39
28.40	n/a	.000				
		overflow <=	1.0 05:NOvf	.00	.000 No_date	0:00
.00	n/a	.000				
{MxStoUsed=.1971E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}						
#	----- -NORTH CATCHMENT TOTAL-----					

R0001:C00024-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV						
mm-R.C.---DWFcms						
		ADD HYD	1.0 03:SWMF-N	11.33	.150 No_date	6:39
28.40	n/a	.000				

		+	1.0 05:NOvf	.00	.000 No_date	0:00
.00	n/a	.000				
		SUM=	1.0 06:NORTH	11.33	.150 No_date	6:39
28.40	n/a	.000				
#	-----					

#-----|

#-----| -SOUTHERN CATCHMENT-----|

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00025-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV						
mm-R.C.---DWFcms						
		CALIB STANDHYD	1.0 05:1A	8.20	.817 No_date	6:01
29.38	.647	.000				
		[XIMP=.37:TIMP=.61]				
		[LOSS= 2 :CN= 79.0]				
		[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]				
		[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]				
#	----- -SOUTH SWM POND-----					

R0001:C00026-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV						
mm-R.C.---DWFcms						
		ROUTE RESERVOIR ->	1.0 05:1A	8.20	.817 No_date	6:01
29.38	n/a	.000				
		out <=	1.0 03:SWMF-S	8.20	.099 No_date	6:42
29.38	n/a	.000				
		overflow <=	1.0 07:SOvf	.00	.000 No_date	0:00
.00	n/a	.000				
{MxStoUsed=.1491E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}						
#	-----					

#-----| -SOUTHEASTERN CATCHMENT-----|

R0001:C00027-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .054 No_date 6:00
29.89 .658 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00028-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .054 No_date 6:00
29.89 n/a .000
out <= 1.0 09:BIORET .49 .011 No_date 6:07
29.89 n/a .000
overflow <= 1.0 05: BIOOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.6896E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
R0001:C00029-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05: BIOOvf .00 .000 No_date 0:00
.00 n/a .000
* out <= 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
overflow <= 1.0 01:DRYOvf 3.85 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.0000E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00030-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .150 No_date 6:39
28.40 n/a .000
+ 1.0 03:SWMF-S 8.20 .099 No_date 6:42
29.38 n/a .000
+ 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 01:DRYOvf 3.85 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 23.38 .248 No_date 6:40
24.07 n/a .000
#-----|-----

#-----|-----|

#-----|-----|

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00031-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 1.281 No_date 7:33
13.04 .287 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00032-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 1.281 No_date 7:33
13.04 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 1.281 No_date 7:56
13.04 n/a .000
#-----|-----|

#-----|-----POST DEV UNDEVELOPED AREA-----|

R0001:C00033-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .259 No_date 6:44

9.65 .213 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00034-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 1.281 No_date 7:56
13.04 n/a .000 + 1.0 03:7021 22.98 .259 No_date 6:44
9.65 n/a .000 + 1.0 10:POSTSITE 23.38 .248 No_date 6:40
24.07 n/a .000 SUM= 1.0 04:PosWC7 184.16 1.562 No_date 7:45
14.02 n/a .000
R0001:C00035-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 184.16 1.562 No_date 7:45
14.02 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----

#####

#####

5yr SCS Storm (12hr)

#####

#####

R0001:C00036-----

MASS STORM
Filename = J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design_Renta
Comment = 12 hour SCS II storm mass curve

[SDT= 1.00:SDUR= 12.00:PTOT= 57.78]
#####

#-----|-----

#-----|-----PRE-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----PRE-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00037-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 2.478 No_date 7:28
22.69 .393 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----|-----SITE AND SURROUNDING AREA-----|

R0001:C00038-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .637 No_date 6:42

15.48 .268 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00039-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 2.478 No_date 7:28
22.69 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 2.478 No_date 7:51
22.69 n/a .000
#-----|WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00040-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 2.478 No_date 7:51
22.69 n/a .000
+ 1.0 03:702 34.50 .637 No_date 6:42
15.48 n/a .000
SUM= 1.0 04:PreWC7 181.20 2.798 No_date 7:41
21.32 n/a .000
R0001:C00041-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 2.798 No_date 7:41
21.32 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----|

#-----|-----|

#-----|PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00042-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms

CALIB NASHYD 1.0 01:1A-Pre 8.20 .244 No_date 6:22
17.26 .299 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00043-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .139 No_date 6:19
16.55 .286 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00044-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .036 No_date 6:10
16.95 .293 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00045-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .210 No_date 6:15
17.61 .305 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----|North (Catchment 2) Internal-----|

R0001:C00046-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .139 No_date 6:19
16.55 n/a .000
+ 1.0 03:2B-Pre .87 .036 No_date 6:10
16.95 n/a .000
SUM= 1.0 04:2A2B 5.43 .171 No_date 6:16
16.62 n/a .000
#-----|North (Catchment 2) Total-----|

R0001:C00047-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .139 No_date 6:19
16.55 n/a .000
+ 1.0 03:2B-Pre .87 .036 No_date 6:10
16.95 n/a .000
+ 1.0 05:2C-Pre 5.91 .210 No_date 6:15
17.61 n/a .000
SUM= 1.0 04:2-Pre 11.34 .381 No_date 6:16
17.13 n/a .000
R0001:C00048-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .007 No_date 6:12
6.55 .113 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----|

#-----|-----

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----

#-----|-----

#-----|-----LANDS DRAINING TO NORTH SWM POND-----

#-----|-----NORTH INLET-----

R0001:C00049-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 .575 No_date 6:00

41.05 .710 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]

R0001:C00050-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .262 No_date 6:00

35.75 .619 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]

R0001:C00051-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .226 No_date 6:00

47.62 .824 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]

R0001:C00052-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .303 No_date 6:00

42.66 .738 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]

R0001:C00053-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .089 No_date 6:00

34.87 .603 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]

R0001:C00054-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .032 No_date 6:12

16.63 .288 .000
[CN= 69.2: N= 3.00: Tp= .29]

#-----|-----NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----

R0001:C00055-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .575 No_date 6:00

41.05 n/a .000 + 1.0 03:2C-1 2.64 .262 No_date 6:00

35.75 n/a .000 + 1.0 08:2C-2 1.30 .226 No_date 6:00

47.62 n/a .000 + 1.0 09:2C-3 1.97 .303 No_date 6:00

42.66 n/a .000 + 1.0 06:2B .87 .032 No_date 6:12

16.63 n/a .000 SUM= 1.0 07:NSWM1 10.63 1.388 No_date 6:00

38.84 n/a .000

#-----|-----

#-----|-----NORTH SWMP NORTH TOTAL-----

R0001:C00056-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .575 No_date 6:00

41.05 n/a .000 + 1.0 03:2C-1 2.64 .262 No_date 6:00

35.75 n/a .000

47.62	n/a	.000	+	1.0 08:2C-2	1.30	.226	No_date	6:00
42.66	n/a	.000	+	1.0 09:2C-3	1.97	.303	No_date	6:00
34.87	n/a	.000	+	1.0 05:2A-4	.70	.089	No_date	6:00
16.63	n/a	.000	+	1.0 06:2B	.87	.032	No_date	6:12
38.59	n/a	.000	SUM=	1.0 04:NSWM1	11.33	1.477	No_date	6:00

#-----|

R0001:C00057-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 1.477 No_date 6:00
38.59 n/a .000
out <= 1.0 03:SWMF-N 11.33 .333 No_date 6:26
38.59 n/a .000
overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2358E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|NORTH CATCHMENT TOTAL-----|

R0001:C00058-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .333 No_date 6:26
38.59 n/a .000
+ 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 06:NORTH 11.33 .333 No_date 6:26
38.59 n/a .000
#-----|-----|

#-----|-----|

#-----|SOUTHERN CATCHMENT-----|

#-----|LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00059-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 1.167 No_date 6:00
40.06 .693 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----|SOUTH SWM POND-----|

R0001:C00060-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 1.167 No_date 6:00
40.06 n/a .000
out <= 1.0 03:SWMF-S 8.20 .220 No_date 6:30
40.06 n/a .000
overflow <= 1.0 07:S0vf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.1838E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|-----|

#-----|SOUTHEASTERN CATCHMENT-----|

R0001:C00061-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .071 No_date 6:00
39.10 .677 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00062-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .071 No_date 6:00
39.10 n/a .000
out <= 1.0 09:BIORET .49 .016 No_date 6:06
39.10 n/a .000
overflow <= 1.0 05:BI00vf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.8901E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}

R0001:C00063-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BIOOvf .00 .000 No_date 0:00
.00 n/a .000
* out <= 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
overflow <= 1.0 01:DRYOvf 3.85 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.0000E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00064-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .333 No_date 6:26
38.59 n/a .000
+ 1.0 03:SWMF-S 8.20 .220 No_date 6:30
40.06 n/a .000
+ 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 09:DRYPOND .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 01:DRYOvf 3.85 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 23.38 .553 No_date 6:27
32.75 n/a .000
#-----|-----|

#-----|-----|

#-----|-----|

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00065-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 2.120 No_date 7:30
20.93 .362 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00066-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 2.120 No_date 7:30
20.93 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 2.120 No_date 7:53
20.93 n/a .000
#-----|-----|

#-----|-----POST DEV UNDEVELOPED AREA-----|

R0001:C00067-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .429 No_date 6:42
15.64 .271 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00068-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 2.120 No_date 7:53
20.93 n/a .000
+ 1.0 03:7021 22.98 .429 No_date 6:42
15.64 n/a .000
+ 1.0 10:POSTSITE 23.38 .553 No_date 6:27
32.75 n/a .000

SUM= 1.0 04:PosWC7 184.16 2.578 No_date 7:40
21.77 n/a .000
R0001:C00069-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 184.16 2.578 No_date 7:40
21.77 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----

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10yr SCS Storm (12hr)

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R0001:C00070-----

MASS STORM
Filename = J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design_Renta
Comment = 12 hour SCS II storm mass curve

[SDT= 1.00:SDUR= 12.00:PTOT= 65.89]
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#-----|-----

#-----|-----PRE-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----PRE-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00071-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 3.135 No_date 7:26
28.46 .432 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----|-----SITE AND SURROUNDING AREA-----|

R0001:C00072-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 .827 No_date 6:42
19.88 .302 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00073-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 3.135 No_date 7:26
28.46 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 3.135 No_date 7:49
28.46 n/a .000
#-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00074-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 3.135 No_date 7:49
28.46 n/a .000
+ 1.0 03:702 34.50 .827 No_date 6:42
19.88 n/a .000

SUM= 1.0 04:PreWC7 181.20 3.550 No_date 7:40
26.83 n/a .000
R0001:C00075-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 3.550 No_date 7:40
26.83 n/a .000
fname :PreWC7.0001
remark:PRE WC7

#-----|-----

#-----|-----

#-----|-----PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----

#-----|-----

#-----|-----PRE-DEVELOPMENT SWM QUANTITY-----

R0001:C00076-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .318 No_date 6:21
22.19 .337 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00077-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .182 No_date 6:18
21.37 .324 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00078-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .047 No_date 6:10
21.83 .331 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00079-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .273 No_date 6:15
22.59 .343 .000
[CN= 74.6: N= 3.00: Tp= .34]

#-----|-----North (Catchment 2) Internal-----|

R0001:C00080-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .182 No_date 6:18
21.37 n/a .000
+ 1.0 03:2B-Pre .87 .047 No_date 6:10
21.83 n/a .000
SUM= 1.0 04:2A2B 5.43 .225 No_date 6:16
21.44 n/a .000
#-----|-----North (Catchment 2) Total-----|

R0001:C00081-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .182 No_date 6:18
21.37 n/a .000
+ 1.0 03:2B-Pre .87 .047 No_date 6:10
21.83 n/a .000
+ 1.0 05:2C-Pre 5.91 .273 No_date 6:15
22.59 n/a .000
SUM= 1.0 04:2-Pre 11.34 .497 No_date 6:16
22.04 n/a .000
R0001:C00082-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .009 No_date 6:12
8.66 .131 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----

#-----|-----LANDS DRAINING TO NORTH SWM POND-----|

#-----| -NORTH INLET-----|

R0001:C00083-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 .688 No_date 6:00
48.25 .732 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00084-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .315 No_date 6:00
42.39 .643 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00085-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .263 No_date 6:00
55.14 .837 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00086-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .359 No_date 6:00
50.12 .761 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00087-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .108 No_date 6:00
41.45 .629 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00088-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .041 No_date 6:12
21.14 .321 .000
[CN= 69.2: N= 3.00: Tp= .29]

#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00089-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .688 No_date 6:00
48.25 n/a .000 + 1.0 03:2C-1 2.64 .315 No_date 6:00
42.39 n/a .000 + 1.0 08:2C-2 1.30 .263 No_date 6:00
55.14 n/a .000 + 1.0 09:2C-3 1.97 .359 No_date 6:00
50.12 n/a .000 + 1.0 06:2B .87 .041 No_date 6:12
21.14 n/a .000 SUM= 1.0 07:NSWM1 10.63 1.652 No_date 6:00
45.77 n/a .000
#-----|

#-----| -NORTH SWMP NORTH TOTAL-----|

R0001:C00090-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .688 No_date 6:00
48.25 n/a .000 + 1.0 03:2C-1 2.64 .315 No_date 6:00
42.39 n/a .000 + 1.0 08:2C-2 1.30 .263 No_date 6:00
55.14 n/a .000 + 1.0 09:2C-3 1.97 .359 No_date 6:00
50.12 n/a .000 + 1.0 05:2A-4 .70 .108 No_date 6:00
41.45 n/a .000 + 1.0 06:2B .87 .041 No_date 6:12
21.14 n/a .000 SUM= 1.0 04:NSWM1 11.33 1.759 No_date 6:00
45.50 n/a .000
#-----|

R0001:C00091-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 1.759 No_date 6:00
45.50 n/a .000

```

out <= 1.0 03:SWMF-N 11.33 .365 No_date 6:30
45.50 n/a .000
overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2753E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|
```

```

R0001:C00092-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .365 No_date 6:30
45.50 n/a .000
+ 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 06:NORTH 11.33 .365 No_date 6:30
45.50 n/a .000
#-----|
```

#-----|

#-----| -SOUTERN CATCHMENT-----|

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

```

R0001:C00093-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 1.391 No_date 6:00
47.27 .717 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|
```

```

R0001:C00094-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 1.391 No_date 6:00
47.27 n/a .000
```

```

out <= 1.0 03:SWMF-S 8.20 .237 No_date 6:32
47.27 n/a .000
overflow <= 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2168E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|
```

#-----| -SOUTHEASTERN CATCHMENT-----|

```

R0001:C00095-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .082 No_date 6:00
45.26 .687 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00096-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
```

```

ROUTE RESERVOIR -> 1.0 08:3A .49 .082 No_date 6:00
45.26 n/a .000
out <= 1.0 09:BIORET .46 .016 No_date 5:59
45.26 n/a .000
overflow <= 1.0 05:BIOOvf .03 .066 No_date 6:00
45.26 n/a .000
{MxStoUsed=.8999E-02 m3, TotOvfVol=.1348E-02 m3, N-Ovf= 3, TotDurOvf=
0.hrs}
R0001:C00097-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
```

```

ROUTE RESERVOIR -> 1.0 05:BIOOvf .03 .066 No_date 6:00
45.26 n/a .000
out <= 1.0 09:DRYPOND .03 .006 No_date 6:04
45.30 n/a .000
overflow <= 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.1094E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----| -----SITE TOTAL-----|
```

```

R0001:C00098-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .365 No_date 6:30
45.50 n/a .000
```

47.27	n/a	.000	+	1.0 03:SWMF-S	8.20	.237	No_date	6:32
			+	1.0 07:SOvf	.00	.000	No_date	0:00
.00	n/a	.000	+	1.0 09:DRYPOND	.03	.006	No_date	6:04
45.30	n/a	.000	+	1.0 01:DRYOvf	.00	.000	No_date	0:00
.00	n/a	.000						
		SUM=		1.0 10:POSTSITE	19.56	.607	No_date	6:30
46.24	n/a	.000						

#-----|-----

#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT-----

#-----|-----OVERALL WC 7 FLOWS-----

#-----|-----

#-----|-----POST-LAND SWAP-----

#-----|-----LANDS UPSTREAM OF SITE-----

R0001:C00099-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 2.729 No_date 7:28
26.60 .404 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00100-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 2.729 No_date 7:28

26.60 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 2.729 No_date 7:51
26.60 n/a .000
#-----|-----

#-----|-----POST DEV UNDEVELOPED AREA-----

R0001:C00101-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .556 No_date 6:42
20.05 .304 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----

#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----

R0001:C00102-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 2.729 No_date 7:51
26.60 n/a .000
+ 1.0 03:7021 22.98 .556 No_date 6:42
20.05 n/a .000
+ 1.0 10:POSTSITE 19.56 .607 No_date 6:30
46.24 n/a .000
SUM= 1.0 04:PosWC7 180.34 3.383 No_date 7:35
27.90 n/a .000
R0001:C00103-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 180.34 3.383 No_date 7:35
27.90 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----

#*****

#*****

25yr SCS Storm (12hr)

#*****

#*****

R0001:C00104-----

MASS STORM
Filename = J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design_Renta
Comment = 12 hour SCS II storm mass curve

[SDT= 1.00:SDUR= 12.00:PTOT= 76.11]
#*****

#-----|-----

#-----|-----PRE-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----PRE-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00105-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 4.012 No_date 7:25
36.14 .475 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----|-----SITE AND SURROUNDING AREA-----|

R0001:C00106-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 1.087 No_date 6:41
25.90 .340 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00107-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 4.012 No_date 7:25
36.14 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 4.012 No_date 7:48
36.14 n/a .000
#-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00108-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 4.012 No_date 7:48
36.14 n/a .000
+ 1.0 03:702 34.50 1.087 No_date 6:41
25.90 n/a .000
SUM= 1.0 04:PreWC7 181.20 4.557 No_date 7:39
34.19 n/a .000
R0001:C00109-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 4.557 No_date 7:39
34.19 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----

#-----|-----

#-----| -PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----| -PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00110-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB NASHYD 1.0 01:1A-Pre 8.20 .420 No_date 6:21

28.88 .379 .000

[CN= 74.3: N= 3.00: Tp= .42]

R0001:C00111-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB NASHYD 1.0 02:2A-Pre 4.56 .242 No_date 6:18

27.91 .367 .000

[CN= 73.5: N= 3.00: Tp= .38]

R0001:C00112-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB NASHYD 1.0 03:2B-Pre .87 .062 No_date 6:10

28.45 .374 .000

[CN= 73.9: N= 3.00: Tp= .26]

R0001:C00113-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB NASHYD 1.0 05:2C-Pre 5.91 .358 No_date 6:15

29.34 .386 .000

[CN= 74.6: N= 3.00: Tp= .34]

#-----| -North (Catchment 2) Internal-----|

R0001:C00114-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

ADD HYD 1.0 02:2A-Pre 4.56 .242 No_date 6:18

27.91 n/a .000

+ 1.0 03:2B-Pre .87 .062 No_date 6:10

28.45 n/a .000

SUM= 1.0 04:2A2B 5.43 .297 No_date 6:16

28.00 n/a .000

#-----| -North (Catchment 2) Total-----|

R0001:C00115-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

ADD HYD 1.0 02:2A-Pre 4.56 .242 No_date 6:18

27.91 n/a .000

+ 1.0 03:2B-Pre .87 .062 No_date 6:10

28.45 n/a .000

+ 1.0 05:2C-Pre 5.91 .358 No_date 6:15

29.34 n/a .000

SUM= 1.0 04:2-Pre 11.34 .655 No_date 6:15

28.70 n/a .000

R0001:C00116-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB NASHYD 1.0 06:3A-Pre .49 .012 No_date 6:12

11.66 .153 .000

[CN= 43.3: N= 3.00: Tp= .29]

#-----|-----|

#-----|-----|

#-----| -POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----| -LANDS DRAINING TO NORTH SWM POND-----|

#-----| -NORTH INLET-----|

R0001:C00117-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB STANDHYD 1.0 01:2A-1 3.85 .825 No_date 6:00

57.50 .755 .000

[XIMP=.46:TIMP=.61]

[LOSS= 2 :CN= 79.0]

[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]

[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]

R0001:C00118-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms

CALIB STANDHYD 1.0 03:2C-1 2.64 .389 No_date 6:00

51.00 .670 .000

[XIMP=.39:TIMP=.39]

```
[LOSS= 2 :CN= 79.0]
[Pervious   area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00119-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD      1.0 08:2C-2      1.30      .309 No_date    6:00
64.70 .850      .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious   area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00120-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD      1.0 09:2C-3      1.97      .435 No_date    6:00
59.66 .784      .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious   area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00121-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD      1.0 05:2A-4      .70      .131 No_date    6:00
50.00 .657      .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious   area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00122-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD        1.0 06:2B      .87      .054 No_date    6:11
27.26 .358      .000
[CN= 69.2: N= 3.00: Tp= .29]
#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00123-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD              1.0 01:2A-1      3.85      .825 No_date    6:00
57.50 n/a      .000
+ 1.0 03:2C-1      2.64      .389 No_date    6:00
51.00 n/a      .000
+ 1.0 08:2C-2      1.30      .309 No_date    6:00
64.70 n/a      .000
+ 1.0 09:2C-3      1.97      .435 No_date    6:00
59.66 n/a      .000
+ 1.0 06:2B      .87      .054 No_date    6:11
27.26 n/a      .000
SUM= 1.0 07:NSWM1      10.63      1.994 No_date    6:00
54.69 n/a      .000
```

#-----|

#-----| -NORTH SWMP NORTH TOTAL-----|

```
R0001:C00124-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD              1.0 01:2A-1      3.85      .825 No_date    6:00
57.50 n/a      .000
+ 1.0 03:2C-1      2.64      .389 No_date    6:00
51.00 n/a      .000
+ 1.0 08:2C-2      1.30      .309 No_date    6:00
64.70 n/a      .000
+ 1.0 09:2C-3      1.97      .435 No_date    6:00
59.66 n/a      .000
+ 1.0 05:2A-4      .70      .131 No_date    6:00
50.00 n/a      .000
+ 1.0 06:2B      .87      .054 No_date    6:11
27.26 n/a      .000
SUM= 1.0 04:NSWM1      11.33      2.126 No_date    6:00
54.40 n/a      .000
#-----|
```

```
R0001:C00125-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1      11.33      2.126 No_date    6:00
54.40 n/a      .000
out <= 1.0 03:SWMF-N      11.33      .406 No_date    6:31
54.40 n/a      .000
overflow <= 1.0 05:NOvf      .00      .000 No_date    0:00
.00 n/a      .000
{MxStoUsed=.3322E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|
```

```
R0001:C00126-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD              1.0 03:SWMF-N      11.33      .406 No_date    6:31
54.40 n/a      .000
+ 1.0 05:NOvf      .00      .000 No_date    0:00
.00 n/a      .000
SUM= 1.0 06:NORTH      11.33      .406 No_date    6:31
54.40 n/a      .000
```

#-----|-----|

#-----|-----|

#-----|-----SOUTHERN CATCHMENT-----|

#-----|-----LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00127-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:1A 8.20 1.703 No_date 6:00
56.54 .743 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----|-----SOUTH SWM POND-----|

R0001:C00128-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 1.703 No_date 6:00
56.54 n/a .000
out <= 1.0 03:SWMF-S 8.20 .258 No_date 6:33
56.54 n/a .000
overflow <= 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2628E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|-----|

#-----|-----SOUTHEASTERN CATCHMENT-----|

R0001:C00129-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .096 No_date 6:00
53.15 .698 .000

[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00130-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .096 No_date 6:00
53.15 n/a .000
out <= 1.0 09:BIORET .43 .016 No_date 5:55
53.15 n/a .000
overflow <= 1.0 05:BI00vf .06 .080 No_date 6:00
53.15 n/a .000
{MxStoUsed=.9000E-02 m3, TotOvfVol=.3364E-02 m3, N-Ovf= 4, TotDurOvf= 0.hrs}
R0001:C00131-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BI00vf .06 .080 No_date 6:00
53.15 n/a .000
out <= 1.0 09:DRYPOND .06 .009 No_date 6:04
53.17 n/a .000
overflow <= 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2746E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00132-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .406 No_date 6:31
54.40 n/a .000
+ 1.0 03:SWMF-S 8.20 .258 No_date 6:33
56.54 n/a .000
+ 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 09:DRYPOND .06 .009 No_date 6:04
53.17 n/a .000
+ 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 19.59 .671 No_date 6:31
55.29 n/a .000
#-----|-----|

#-----|-----|

#-----|-----|

#-----| -POST-DEVELOPMENT-----|

#-----| -OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----| -POST-LAND SWAP-----|

#-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00133-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 3.547 No_date 7:27
34.17 .449 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00134-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 3.547 No_date 7:27
34.17 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 3.547 No_date 7:50
34.17 n/a .000
#-----|-----|

#-----| -POST DEV UNDEVELOPED AREA-----|

R0001:C00135-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .730 No_date 6:41
26.08 .343 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----| -WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00136-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 3.547 No_date 7:50
34.17 n/a .000
+ 1.0 03:7021 22.98 .730 No_date 6:41
26.08 n/a .000
+ 1.0 10:POSTSITE 19.59 .671 No_date 6:31
55.29 n/a .000
SUM= 1.0 04:PosWC7 180.37 4.475 No_date 7:41
35.43 n/a .000
R0001:C00137-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 180.37 4.475 No_date 7:41
35.43 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----|

#####

#####

50yr SCS Storm (12hr)

#####

#####

R0001:C00138-----

MASS STORM
Filename = J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design_Renta
Comment = 12 hour SCS II storm mass curve
[SDT= 1.00:SDUR= 12.00:PTOT= 83.83]
#*****

#-----|-----|

#-----|-----PRE-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----|-----PRE-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00139-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 4.703 No_date 7:25
42.18 .503 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----|-----SITE AND SURROUNDING AREA-----|

R0001:C00140-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 1.298 No_date 6:41
30.74 .367 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00141-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms

SHIFT HYD -> 1.0 01:701 146.70 4.703 No_date 7:25
42.18 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 4.703 No_date 7:48
42.18 n/a .000
#-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00142-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 4.703 No_date 7:48
42.18 n/a .000
+ 1.0 03:702 34.50 1.298 No_date 6:41
30.74 n/a .000
SUM= 1.0 04:PreWC7 181.20 5.354 No_date 7:38
40.01 n/a .000
R0001:C00143-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PreWC7 181.20 5.354 No_date 7:38
40.01 n/a .000
fname :PreWC7.0001

remark:PRE WC7

#-----|-----|

#-----|-----|

#-----|-----PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|-----PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00144-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .501 No_date 6:20
34.23 .408 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00145-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV

mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .289 No_date 6:18
33.16 .396 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00146-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .073 No_date 6:10
33.75 .403 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00147-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .427 No_date 6:15
34.73 .414 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----|North (Catchment 2) Internal-----|

R0001:C00148-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .289 No_date 6:18
33.16 n/a .000
+ 1.0 03:2B-Pre .87 .073 No_date 6:10
33.75 n/a .000
SUM= 1.0 04:2A2B 5.43 .356 No_date 6:15
33.26 n/a .000
#-----|North (Catchment 2) Total-----|

R0001:C00149-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .289 No_date 6:18
33.16 n/a .000
+ 1.0 03:2B-Pre .87 .073 No_date 6:10
33.75 n/a .000
+ 1.0 05:2C-Pre 5.91 .427 No_date 6:15
34.73 n/a .000
SUM= 1.0 04:2-Pre 11.34 .782 No_date 6:15
34.03 n/a .000
R0001:C00150-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .015 No_date 6:12
14.17 .169 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----|

#-----|-----|

#-----|POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|LANDS DRAINING TO NORTH SWM POND-----|

#-----|NORTH INLET-----|

R0001:C00151-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 .931 No_date 6:00
64.58 .770 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]
R0001:C00152-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .448 No_date 6:00
57.66 .688 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]
R0001:C00153-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .344 No_date 6:00
71.99 .859 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]
R0001:C00154-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .491 No_date 6:00
66.95 .799 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]

[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]
R0001:C00155-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .151 No_date 6:00
56.61 .675 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]
R0001:C00156-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .064 No_date 6:11
32.18 .384 .000
[CN= 69.2: N= 3.00: Tp= .29]
#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

R0001:C00157-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .931 No_date 6:00
64.58 n/a .000
+ 1.0 03:2C-1 2.64 .448 No_date 6:00
57.66 n/a .000
+ 1.0 08:2C-2 1.30 .344 No_date 6:00
71.99 n/a .000
+ 1.0 09:2C-3 1.97 .491 No_date 6:00
66.95 n/a .000
+ 1.0 06:2B .87 .064 No_date 6:11
32.18 n/a .000
SUM= 1.0 07:NSWM1 10.63 2.256 No_date 6:00
61.56 n/a .000
#-----|

#-----| -NORTH SWMP NORTH TOTAL-----|

R0001:C00158-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 01:2A-1 3.85 .931 No_date 6:00
64.58 n/a .000
+ 1.0 03:2C-1 2.64 .448 No_date 6:00
57.66 n/a .000
+ 1.0 08:2C-2 1.30 .344 No_date 6:00
71.99 n/a .000
+ 1.0 09:2C-3 1.97 .491 No_date 6:00
66.95 n/a .000

+ 1.0 05:2A-4 .70 .151 No_date 6:00
56.61 n/a .000
+ 1.0 06:2B .87 .064 No_date 6:11
32.18 n/a .000
SUM= 1.0 04:NSWM1 11.33 2.407 No_date 6:00
61.25 n/a .000
#-----|

R0001:C00159-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 04:NSWM1 11.33 2.407 No_date 6:00
61.25 n/a .000
out <= 1.0 03:SWMF-N 11.33 .435 No_date 6:32
61.25 n/a .000
overflow <= 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.3774E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|

R0001:C00160-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 03:SWMF-N 11.33 .435 No_date 6:32
61.25 n/a .000
+ 1.0 05:NOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 06:NORTH 11.33 .435 No_date 6:32
61.25 n/a .000
#-----|

#-----|

#-----| -SOUTHERN CATCHMENT-----|

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

R0001:C00161-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms

CALIB STANDHYD 1.0 05:1A 8.20 1.929 No_date 6:00
63.65 .759 .000
[XIMP=.37:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----|-----SOUTH SWM POND-----|

R0001:C00162-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:1A 8.20 1.929 No_date 6:00
63.65 n/a .000
out <= 1.0 03:SWMF-S 8.20 .273 No_date 6:34
63.65 n/a .000
overflow <= 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.2991E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----

#-----|-----SOUTHEASTERN CATCHMENT-----|

R0001:C00163-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .107 No_date 6:00
59.21 .706 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]
R0001:C00164-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .107 No_date 6:00
59.21 n/a .000
out <= 1.0 09:BIORET .40 .016 No_date 5:54
59.21 n/a .000
overflow <= 1.0 05:BI0Ovf .09 .091 No_date 6:00
59.21 n/a .000
{MxStoUsed=.9000E-02 m3, TotOvfVol=.5068E-02 m3, N-Ovf= 2, TotDurOvf=
1.hrs}
R0001:C00165-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BI0Ovf .09 .091 No_date 6:00
59.21 n/a .000

out <= 1.0 09:DRYPOND .09 .009 No_date 6:06
59.31 n/a .000
overflow <= 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.4111E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf=
0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00166-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .435 No_date 6:32
61.25 n/a .000
+ 1.0 03:SWMF-S 8.20 .273 No_date 6:34
63.65 n/a .000
+ 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000
+ 1.0 09:DRYPOND .09 .009 No_date 6:06
59.31 n/a .000
+ 1.0 01:DRYOvf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 19.62 .717 No_date 6:32
62.24 n/a .000
#-----|-----

#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----POST-LAND SWAP-----|

#-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00167-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 4.195 No_date 7:26
40.15 .479 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00168-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 4.195 No_date 7:26
40.15 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 4.195 No_date 7:49
40.15 n/a .000
#-----|-----|

#-----| -POST DEV UNDEVELOPED AREA-----|

R0001:C00169-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 .870 No_date 6:41
30.94 .369 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----| -WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00170-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 4.195 No_date 7:49
40.15 n/a .000
+ 1.0 03:7021 22.98 .870 No_date 6:41
30.94 n/a .000
+ 1.0 10:POSTSITE 19.62 .717 No_date 6:32
62.24 n/a .000
SUM= 1.0 04:PosWC7 180.40 5.246 No_date 7:40
41.38 n/a .000
R0001:C00171-----DTmin-ID:NHYD-----AREAh-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms

SAVE HYD 1.0 04:PosWC7 180.40 5.246 No_date 7:40
41.38 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----|

#####

#####

100yr SCS Storm (12hr)

#####

#####

R0001:C00172-----

MASS STORM
Filename = J:\700\721 - MacPherson Builders\3464 - Home Farm
TIS\Design_Renta
Comment = 12 hour SCS II storm mass curve

[SDT= 1.00:SDUR= 12.00:PTOT= 91.47]
#####

#-----|-----|

#-----| -PRE-DEVELOPMENT-----|

#-----| -OVERALL WC 7 FLOWS-----|

#-----|-----|

#-----| -PRE-LAND SWAP-----|

#-----| -LANDS UPSTREAM OF SITE-----|

R0001:C00173-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 146.70 5.409 No_date 7:24
48.34 .528 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
#-----| -SITE AND SURROUNDING AREA-----|

R0001:C00174-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:702 34.50 1.517 No_date 6:41
35.76 .391 .000
[CN= 69.1: N= 3.00: Tp= .70]
R0001:C00175-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 146.70 5.409 No_date 7:24
48.34 n/a .000
[LAG= 24.0 min]<- 1.0 02: 701 146.70 5.409 No_date 7:47
48.34 n/a .000
#-----| -WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|

R0001:C00176-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02: 701 146.70 5.409 No_date 7:47
48.34 n/a .000
+ 1.0 03:702 34.50 1.517 No_date 6:41
35.76 n/a .000
SUM= 1.0 04:PrewC7 181.20 6.169 No_date 7:37
45.94 n/a .000
R0001:C00177-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms

SAVE HYD 1.0 04:PrewC7 181.20 6.169 No_date 7:37
45.94 n/a .000
fname :PrewC7.0001

remark:PRE WC7

#-----|-----|

#-----|-----|

#-----| -PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----| -PRE-DEVELOPMENT SWM QUANTITY-----|

R0001:C00178-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:1A-Pre 8.20 .585 No_date 6:20
39.73 .434 .000
[CN= 74.3: N= 3.00: Tp= .42]
R0001:C00179-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 02:2A-Pre 4.56 .338 No_date 6:17
38.57 .422 .000
[CN= 73.5: N= 3.00: Tp= .38]
R0001:C00180-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:2B-Pre .87 .086 No_date 6:09
39.21 .429 .000
[CN= 73.9: N= 3.00: Tp= .26]
R0001:C00181-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 05:2C-Pre 5.91 .497 No_date 6:14
40.28 .440 .000
[CN= 74.6: N= 3.00: Tp= .34]
#-----| -North (Catchment 2) Internal-----|

R0001:C00182-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .338 No_date 6:17
38.57 n/a .000 + 1.0 03:2B-Pre .87 .086 No_date 6:09
39.21 n/a .000 SUM= 1.0 04:2A2B 5.43 .416 No_date 6:15
38.67 n/a .000
#-----|North (Catchment 2) Total-----|

R0001:C00183-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:2A-Pre 4.56 .338 No_date 6:17
38.57 n/a .000 + 1.0 03:2B-Pre .87 .086 No_date 6:09
39.21 n/a .000 + 1.0 05:2C-Pre 5.91 .497 No_date 6:14
40.28 n/a .000 SUM= 1.0 04:2-Pre 11.34 .913 No_date 6:15
39.51 n/a .000

R0001:C00184-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:3A-Pre .49 .018 No_date 6:12
16.85 .184 .000
[CN= 43.3: N= 3.00: Tp= .29]
#-----|-----|

#-----|-----|

#-----|POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|

#-----|-----|

#-----|LANDS DRAINING TO NORTH SWM POND-----|

#-----|NORTH INLET-----|

R0001:C00185-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 01:2A-1 3.85 1.046 No_date 6:00
71.67 .783 .000
[XIMP=.46:TIMP=.61]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 160.:MNI=.013:SCI= .0]

R0001:C00186-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 03:2C-1 2.64 .509 No_date 6:00
64.35 .703 .000
[XIMP=.39:TIMP=.39]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 80.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 133.:MNI=.013:SCI= .0]

R0001:C00187-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:2C-2 1.30 .381 No_date 6:00
79.24 .866 .000
[XIMP=.75:TIMP=.75]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 93.:MNI=.013:SCI= .0]

R0001:C00188-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 09:2C-3 1.97 .546 No_date 6:00
74.22 .811 .000
[XIMP=.39:TIMP=.69]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 30.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 115.:MNI=.013:SCI= .0]

R0001:C00189-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 05:2A-4 .70 .170 No_date 6:00
63.26 .692 .000
[XIMP=.36:TIMP=.36]
[LOSS= 2 :CN= 79.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 68.:MNI=.013:SCI= .0]

R0001:C00190-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm----RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 06:2B .87 .074 No_date 6:11
37.26 .407 .000
[CN= 69.2: N= 3.00: Tp= .29]

#-----|NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|

```

R0001:C00191-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ADD HYD          1.0 01:2A-1          3.85    1.046 No_date    6:00
71.67  n/a      .000
      +          1.0 03:2C-1          2.64    .509 No_date    6:00
64.35  n/a      .000
      +          1.0 08:2C-2          1.30    .381 No_date    6:00
79.24  n/a      .000
      +          1.0 09:2C-3          1.97    .546 No_date    6:00
74.22  n/a      .000
      +          1.0 06:2B            .87    .074 No_date    6:11
37.26  n/a      .000
      SUM=        1.0 07:NSWM1         10.63   2.531 No_date    6:00
68.43  n/a      .000
#-----|

```

```

#-----| -NORTH SWMP NORTH TOTAL-----|

```

```

R0001:C00192-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ADD HYD          1.0 01:2A-1          3.85    1.046 No_date    6:00
71.67  n/a      .000
      +          1.0 03:2C-1          2.64    .509 No_date    6:00
64.35  n/a      .000
      +          1.0 08:2C-2          1.30    .381 No_date    6:00
79.24  n/a      .000
      +          1.0 09:2C-3          1.97    .546 No_date    6:00
74.22  n/a      .000
      +          1.0 05:2A-4          .70    .170 No_date    6:00
63.26  n/a      .000
      +          1.0 06:2B            .87    .074 No_date    6:11
37.26  n/a      .000
      SUM=        1.0 04:NSWM1         11.33   2.701 No_date    6:00
68.11  n/a      .000
#-----|

```

```

R0001:C00193-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ROUTE RESERVOIR -> 1.0 04:NSWM1         11.33   2.701 No_date    6:00
68.11  n/a      .000
      out <=      1.0 03:SWMF-N         11.33   .461 No_date    6:32
68.11  n/a      .000
      overflow <= 1.0 05:NOvf            .00    .000 No_date    0:00
.00  n/a      .000

```

```

      {MxStoUsed=.4238E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf=    0, TotDurOvf=
0.hrs}
#-----| -NORTH CATCHMENT TOTAL-----|

```

```

R0001:C00194-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ADD HYD          1.0 03:SWMF-N         11.33   .461 No_date    6:32
68.11  n/a      .000
      +          1.0 05:NOvf            .00    .000 No_date    0:00
.00  n/a      .000
      SUM=        1.0 06:NORTH         11.33   .461 No_date    6:32
68.11  n/a      .000
#-----|

```

```

#-----|

```

```

#-----| -SOUTHERN CATCHMENT-----|

```

```

#-----| -LANDS DRAINING TO SOUTH SWM POND-----|

```

```

R0001:C00195-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  CALIB STANDHYD    1.0 05:1A           8.20    2.154 No_date    6:00
70.75 .773 .000
      [XIMP=.37:TIMP=.61]
      [LOSS= 2 :CN= 79.0]
      [Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
      [Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 234.:MNI=.013:SCI= .0]
#-----| -SOUTH SWM POND-----|

```

```

R0001:C00196-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
  ROUTE RESERVOIR -> 1.0 05:1A           8.20    2.154 No_date    6:00
70.75  n/a      .000
      out <=      1.0 03:SWMF-S         8.20    .287 No_date    6:34
70.75  n/a      .000
      overflow <= 1.0 07:SOvf            .00    .000 No_date    0:00
.00  n/a      .000

```

{MxStoUsed=.3360E+00 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|-----

#-----|-----SOUTHEASTERN CATCHMENT-----|

R0001:C00197-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB STANDHYD 1.0 08:3A .49 .118 No_date 6:00
65.27 .714 .000
[XIMP=.64:TIMP=.64]
[LOSS= 2 :CN= 49.0]
[Pervious area: IAper= 5.00:SLPP=2.00:LGP= 17.:MNP=.250:SCP= .0]
[Impervious area: IAimp= 2.00:SLPI=2.00:LGI= 57.:MNI=.013:SCI= .0]

R0001:C00198-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 08:3A .49 .118 No_date 6:00
65.27 n/a .000
out <= 1.0 09:BIORET .38 .016 No_date 5:52
65.27 n/a .000
overflow <= 1.0 05:BI00vf .11 .102 No_date 6:00
65.27 n/a .000
{MxStoUsed=.8998E-02 m3, TotOvfVol=.6870E-02 m3, N-Ovf= 3, TotDurOvf= 1.hrs}
R0001:C00199-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ROUTE RESERVOIR -> 1.0 05:BI00vf .11 .102 No_date 6:00
65.27 n/a .000
out <= 1.0 09:DRYPOND .11 .010 No_date 6:05
65.32 n/a .000
overflow <= 1.0 01:DRY0vf .00 .000 No_date 0:00
.00 n/a .000
{MxStoUsed=.5544E-02 m3, TotOvfVol=.0000E+00 m3, N-Ovf= 0, TotDurOvf= 0.hrs}
#-----|-----SITE TOTAL-----|

R0001:C00200-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 06:NORTH 11.33 .461 No_date 6:32
68.11 n/a .000
+ 1.0 03:SWMF-S 8.20 .287 No_date 6:34
70.75 n/a .000
+ 1.0 07:SOvf .00 .000 No_date 0:00
.00 n/a .000

+ 1.0 09:DRYPOND .11 .010 No_date 6:05
65.32 n/a .000
+ 1.0 01:DRY0vf .00 .000 No_date 0:00
.00 n/a .000
SUM= 1.0 10:POSTSITE 19.64 .758 No_date 6:33
69.20 n/a .000
#-----|-----

#-----|-----

#-----|-----

#-----|-----POST-DEVELOPMENT-----|

#-----|-----OVERALL WC 7 FLOWS-----|

#-----|-----

#-----|-----POST-LAND SWAP-----|

#-----|-----LANDS UPSTREAM OF SITE-----|

R0001:C00201-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 01:701 137.80 4.856 No_date 7:25
46.25 .506 .000
[CN= 79.9: N= 3.00: Tp= 1.35]
R0001:C00202-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SHIFT HYD -> 1.0 01:701 137.80 4.856 No_date 7:25
46.25 n/a .000
[LAG= 24.0 min]<- 1.0 02:701Shift 137.80 4.856 No_date 7:48
46.25 n/a .000
#-----|-----

#-----| -POST DEV UNDEVELOPED AREA-----|

R0001:C00203-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
CALIB NASHYD 1.0 03:7021 22.98 1.016 No_date 6:41
35.96 .393 .000
[CN= 69.1: N= 3.00: Tp= .70]
#-----|-----|

#-----| -WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|

R0001:C00204-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
ADD HYD 1.0 02:701Shift 137.80 4.856 No_date 7:48
46.25 n/a .000
+ 1.0 03:7021 22.98 1.016 No_date 6:41
35.96 n/a .000
+ 1.0 10:POSTSITE 19.64 .758 No_date 6:33
69.20 n/a .000
SUM= 1.0 04:PosWC7 180.42 6.026 No_date 7:39
47.44 n/a .000
R0001:C00205-----DTmin-ID:NHYD-----AREAha-QPEAKcms-TpeakDate_hh:mm---RV
mm-R.C.---DWFcms
SAVE HYD 1.0 04:PosWC7 180.42 6.026 No_date 7:39
47.44 n/a .000
fname :PosWC7.0001

remark:POST WC7

#-----|-----|

#-----|-----|

R0001:C00206-----

FINISH

WARNINGS / ERRORS / NOTES

R0001:C00029 ROUTE RESERVOIR

*** WARNING: Inflow hydrograph is dry.

R0001:C00063 ROUTE RESERVOIR

*** WARNING: Inflow hydrograph is dry.

Simulation ended on 2026-06-25 at 14:47:21
=====

24-Hour SCS Input File

```

2      Metric units
**
** Project Name: [HOME FARM]      Project Number: [721-3464]
** Date       : 2021-10-25
** Modeller   : [JE]
** Company    : C.F. Crozier & Associates Inc.
** License #  : 3737016
**
**
START      TZERO=[0.0], METOUT=[2], NSTORM=[0], NRUN=[0]
**          [ ] <--storm filename, one per line for NSTORM time
**
**
**
**          2yr SCS Storm (24hr)
**
**
MASS STORM      PTOTAL=[55.34](mm), CSDT=[1](min),
                CURVE_FILENAME=["SCS24HII.mst"]
**
**
**-----|-----
**-----|-----
**-----|-----
**-----|-----
**-----|-----PRE-DEVELOPMENT-----|-----
**-----|-----OVERALL WC 7 FLOWS-----|-----
**-----|-----
**-----|-----PRE-LAND SWAP-----|-----
**-----|-----LANDS UPSTREAM OF SITE-----|-----
**-----|-----
**
CALIB NASHYD      ID=[1], NHYD=["701"], DT=[1]min, AREA=[146.70](ha),
                  DWF=[0](cms), CN/C=[79.9], IA=[6.7](mm),
                  N=[3], TP=[1.35]hrs,
                  RAINFALL=[ , , , ](mm/hr), END=-1
**-----|-----SITE AND SURROUNDING AREA-----|-----
**-----|-----
**
CALIB NASHYD      ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
                  DWF=[0](cms), CN/C=[69.1], IA=[7.4](mm),
                  N=[3], TP=[0.7]hrs,
                  RAINFALL=[ , , , ](mm/hr), END=-1
**-----|-----
**-----|-----
**
SHIFT HYD          IDout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
**-----|-----
**-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|-----
**-----|-----
**
ADD HYD            IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
**-----|-----
**-----|-----
**
SAVE HYD           ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
                  HYD COMMENT=["PRE WC7"]

```

*#-----	
%-----	
%-----	
*#-----	
*#-----	-PRE-DEVELOPMENT QUANTITY CONTROL MODEL----
*#-----	
*#-----	-PRE-DEVELOPMENT SWM QUANTITY-----
%-----	
CALIB NASHYD	ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha), DWF=[0](cms), CN/C=[74.3], IA=[9.27](mm), N=[3], TP=[0.42]hrs, RAINFALL=[, , ,](mm/hr), END=-1
%-----	
CALIB NASHYD	ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha), DWF=[0](cms), CN/C=[73.5], IA=[9.7](mm), N=[3], TP=[0.38]hrs, RAINFALL=[, , ,](mm/hr), END=-1
%-----	
CALIB NASHYD	ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha), DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm), N=[3], TP=[0.26]hrs, RAINFALL=[, , ,](mm/hr), END=-1
%-----	
CALIB NASHYD	ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha), DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm), N=[3], TP=[0.34]hrs, RAINFALL=[, , ,](mm/hr), END=-1
%-----	
*#-----	-North (Catchment 2) Internal-----
%-----	
ADD HYD	IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
%-----	
*#-----	-North (Catchment 2) Total-----
%-----	
ADD HYD	IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
%-----	
%-----	
CALIB NASHYD	ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha), DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm), N=[3], TP=[0.29]hrs, RAINFALL=[, , ,](mm/hr), END=-1
%-----	
*#-----	

```

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
CALIB STANDHYD ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[160](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[80](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[133](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[93](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[68](m), MNI=[0.013], SCI=[0](min),

```

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RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021]
[ 0.024 , 0.066]
[ 0.033 , 0.116]
[ 0.040 , 0.174]
[ 0.334 , 0.236]
[ 0.384 , 0.300]
[ 0.429 , 0.367]
[ 0.469 , 0.437]
[ 0.488 , 0.473]
[ 1.316 , 0.548]
[ 2.305 , 0.587]
[ 3.749 , 0.630]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]
*#-----|-----|
*#-----|-----|
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|-----|

```

```

ROUTE RESERVOIR      IDout=[3],  NHYD=["SWMF-S"],  IDin=[5],
                      RDT=[1](min),
                      TABLE of ( OUTFLOW-STORAGE ) values
                        (cms) - (ha-m)
                        [ 0.0 , 0.0 ]
                        [ 0.008, 0.015]
                        [ 0.024 , 0.048]
                        [ 0.033 , 0.088]
                        [ 0.040 , 0.133]
                        [ 0.219 , 0.182]
                        [ 0.246 , 0.234]
                        [ 0.270 , 0.291]
                        [ 0.293 , 0.352]
                        [ 0.303 , 0.383]
                        [ 0.964 , 0.450]
                        [ 1.678 , 0.485]
                        [ -1 , -1 ] (max twenty pts)
                      IDovf=[7], NHYDovf=["SOvf"]
*#-----|-----
*#-----|-----SOUTHEASTERN CATCHMENT-----|
*#-----|-----
CALIB STANDHYD      ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
                      XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[49.0],
                      Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
                      LGP=[17](m), MNP=[0.25], SCP=[0](min),
                      Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                      LGI=[57](m), MNI=[0.013], SCI=[0](min),
                      RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----Bioretention-----|
ROUTE RESERVOIR      IDout=[9], NHYD=["BIORET"], IDin=[8],
                      RDT=[1](min),
                      TABLE of ( OUTFLOW-STORAGE ) values
                        (cms) - (ha-m)
                        [ 0.0 , 0.0 ]
                        [ 0.002, 0.001]
                        [ 0.007, 0.004]
                        [ 0.011, 0.007]
                        [ 0.016, 0.009]
                        [ -1 , -1 ] (max twenty pts)
                      IDovf=[5], NHYDovf=["BIOOvf"]
*#-----|-----
*#-----|-----Dry Pond-----|
ROUTE RESERVOIR      IDout=[9], NHYD=["DRYPOND"], IDin=[5],
                      RDT=[1](min),
                      TABLE of ( OUTFLOW-STORAGE ) values
                        (cms) - (ha-m)
                        [ 0.0 , 0.0 ]
                        [ 0.005, 0.000]
                        [ 0.009, 0.003]

```

```

[ 0.010 ,0.006]
[ 0.012 ,0.010]
[ 0.014 ,0.017]
[ 0.014 ,0.020]
[ 0.040 ,0.028]
[ 0.043 ,0.040]
[ -1 , -1 ] (max twenty pts)
                      IDovf=[1], NHYDovf=["DRYOvf"]
*#-----|-----
*#-----|-----SITE TOTAL-----|
ADD HYD              IDsum=[10], NHYD=["POSTSITE"], IDs to add=[6,3,7,9,1]
*#-----|-----
*#-----|-----
*#-----|-----
*#-----|-----
*#-----|-----POST-DEVELOPMENT-----|
*#-----|-----OVERALL WC 7 FLOWS-----|
*#-----|-----
*#-----|-----POST-LAND SWAP-----|
*#-----|-----LANDS UPSTREAM OF SITE-----|
*#-----|-----
CALIB NASHYD          ID=[1], NHYD=["701"], DT=[1]min, AREA=[137.8](ha),
                      DWF=[0](cms), CN/C=[79.9], IA=[9.27](mm),
                      N=[3], TP=[1.35]hrs,
                      RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----
SHIFT HYD              IDout=[2], NHYD=["701Shift"], IDin=[1], TLAG=[24](min)
*#-----|-----
*#-----|-----POST DEV UNDEVELOPED AREA-----|
*#-----|-----
CALIB NASHYD          ID=[3], NHYD=["7021"], DT=[1]min, AREA=[22.98](ha),
                      DWF=[0](cms), CN/C=[69.1], IA=[7.1](mm),
                      N=[3], TP=[0.7]hrs,
                      RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----
*#-----|-----WC7 TOTAL AT DOWNSTREAM END--POST DEV-----|
*#-----|-----
ADD HYD              IDsum=[4], NHYD=["PosWC7"], IDs to add=[2,3,10]
*#-----|-----
*#-----|-----
SAVE HYD              ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
                      HYD_COMMENT=["POST WC7"]
*#-----|-----

```



```

*%------| RAINFALL=[ , , , , ](mm/hr), END=-1
CALIB STANDHYD | ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
| XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
| SCS curve number CN=[79.0],
| Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
| LGP=[80](m), MNP=[0.25], SCP=[0](min),
| Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
| LGI=[133](m), MNI=[0.013], SCI=[0](min),
| RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|
CALIB STANDHYD | ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
| XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
| SCS curve number CN=[79.0],
| Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
| LGP=[30](m), MNP=[0.25], SCP=[0](min),
| Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
| LGI=[93](m), MNI=[0.013], SCI=[0](min),
| RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|
CALIB STANDHYD | ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
| XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],
| SCS curve number CN=[79.0],
| Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
| LGP=[30](m), MNP=[0.25], SCP=[0](min),
| Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
| LGI=[115](m), MNI=[0.013], SCI=[0](min),
| RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|
CALIB STANDHYD | ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
| XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
| SCS curve number CN=[79.0],
| Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
| LGP=[17](m), MNP=[0.25], SCP=[0](min),
| Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
| LGI=[68](m), MNI=[0.013], SCI=[0](min),
| RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|
CALIB NASHYD | ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
| DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
| N=[3], TP=[0.29]hrs,
| RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----| -NORTH SWMP NORTH INLET TOTAL-QUALITY CONTROL-----|
ADD HYD | IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|
*#-----| -NORTH SWMP NORTH TOTAL-----|
ADD HYD | IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|

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ROUTE RESERVOIR | IDout=[3], NHYD=["SWMF-N"], IDin=[4],
| RDT=[1](min),
| TABLE of ( OUTFLOW-STORAGE ) values
| (cms) - (ha-m)
| [ 0.0 , 0.0 ]
| [ 0.008 , 0.021 ]
| [ 0.024 , 0.066 ]
| [ 0.033 , 0.116 ]
| [ 0.040 , 0.174 ]
| [ 0.334 , 0.236 ]
| [ 0.384 , 0.300 ]
| [ 0.429 , 0.367 ]
| [ 0.469 , 0.437 ]
| [ 0.488 , 0.473 ]
| [ 1.316 , 0.548 ]
| [ 2.305 , 0.587 ]
| [ 3.749 , 0.630 ]
| [ -1 , -1 ] (max twenty pts)
| IDovf=[5], NHYDovf=["NOvf"]
*%------|
*#-----| -NORTH CATCHMENT TOTAL-----|
ADD HYD | IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]
*#-----|
*#-----|
*#-----| -SOUTHERN CATCHMENT-----|
*#-----| -LANDS DRAINING TO SOUTH SWM POND-----|
*%------|
CALIB STANDHYD | ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
| XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
| SCS curve number CN=[79.0],
| Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
| LGP=[17](m), MNP=[0.25], SCP=[0](min),
| Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
| LGI=[234](m), MNI=[0.013], SCI=[0](min),
| RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----| -SOUTH SWM POND-----|
*%------|
ROUTE RESERVOIR | IDout=[3], NHYD=["SWMF-S"], IDin=[5],
| RDT=[1](min),
| TABLE of ( OUTFLOW-STORAGE ) values
| (cms) - (ha-m)
| [ 0.0 , 0.0 ]
| [ 0.008 , 0.015 ]
| [ 0.024 , 0.048 ]
| [ 0.033 , 0.088 ]
| [ 0.040 , 0.133 ]
| [ 0.219 , 0.182 ]
| [ 0.246 , 0.234 ]
| [ 0.270 , 0.291 ]
| [ 0.293 , 0.352 ]

```



```

*#-----|-----OVERALL WC 7 FLOWS-----|
*#-----|-----|
*#-----|-----PRE-LAND SWAP-----|
*#-----|-----LANDS UPSTREAM OF SITE-----|
*#-----|-----|
CALIB NASHYD      ID=[1], NHYD=["701"], DT=[1]min, AREA=[146.70](ha),
                  DWF=[0](cms), CN/C=[79.9], IA=[6.7](mm),
                  N=[3], TP=[1.35]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----SITE AND SURROUNDING AREA-----|
*#-----|-----|
CALIB NASHYD      ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
                  DWF=[0](cms), CN/C=[69.1], IA=[7.4](mm),
                  N=[3], TP=[0.7]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
SHIFT HYD         IDout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
*#-----|-----|
*#-----|-----WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|
*#-----|-----|
ADD HYD           IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
*#-----|-----|
*#-----|-----|
SAVE HYD          ID=[4], # OF PCYCLES=[1], ICASEsh=[1]
                  HYD_COMMENT=["PRE WC7"]
*#-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|-----PRE-DEVELOPMENT SWM QUANTITY-----|
*#-----|-----|
CALIB NASHYD      ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha),
                  DWF=[0](cms), CN/C=[74.3], IA=[9.27](mm),
                  N=[3], TP=[0.42]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD      ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha),
                  DWF=[0](cms), CN/C=[73.5], IA=[9.7](mm),
                  N=[3], TP=[0.38]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD      ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
                  DWF=[0](cms), CN/C=[73.9], IA=[9.4](mm),
                  N=[3], TP=[0.26]hrs,

```

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                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB NASHYD      ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
                  DWF=[0](cms), CN/C=[74.6], IA=[8.97](mm),
                  N=[3], TP=[0.34]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
*#-----|-----North (Catchment 2) Internal-----|
*#-----|-----|
ADD HYD           IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*#-----|-----|
*#-----|-----North (Catchment 2) Total-----|
*#-----|-----|
ADD HYD           IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*#-----|-----|
*#-----|-----|
CALIB NASHYD      ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
                  DWF=[0](cms), CN/C=[43.3], IA=[7.72](mm),
                  N=[3], TP=[0.29]hrs,
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|-----LANDS DRAINING TO NORTH SWM POND-----|
*#-----|-----|
*#-----|-----NORTH INLET-----|
*#-----|-----|
CALIB STANDHYD    ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
                  XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
                  SCS curve number CN=[79.0],
                  Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                  LGP=[17](m), MNP=[0.25], SCP=[0](min),
                  Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[160](m), MNI=[0.013], SCI=[0](min),
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
CALIB STANDHYD    ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
                  XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
                  SCS curve number CN=[79.0],
                  Pervious surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                  LGP=[80](m), MNP=[0.25], SCP=[0](min),
                  Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[133](m), MNI=[0.013], SCI=[0](min),
                  RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|

```

CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],


```

CALIB NASHYD      ID=[3], NHYD=["702"], DT=[1]min, AREA=[34.5](ha),
                  DWF=[0](cms),  CN/C=[69.1], IA=[7.4](mm),
                  N=[3], TP=[0.7]hrs,
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
SHIFT HYD         IDout=[2], NHYD=[701Shift], IDin=[1], TLAG=[24](min)
*%------|-----|
*#-----|-----|WC7 TOTAL AT LAKESHORE RD--PRE DEV-----|
*%------|-----|
ADD HYD           IDsum=[4], NHYD=["PreWC7"], IDs to add=[2,3]
*%------|-----|
*%------|-----|
SAVE HYD          ID=[4],   # OF PCYCLES=[1], ICASEsh=[1]
                  HYD_COMMENT=["PRE WC7"]
*#-----|-----|

*%------|-----|
*%------|-----|
*#-----|-----|
*#-----|-----|PRE-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|-----|PRE-DEVELOPMENT SWM QUANTITY-----|
*%------|-----|
CALIB NASHYD      ID=[1], NHYD=["1A-Pre"], DT=[1]min, AREA=[8.2](ha),
                  DWF=[0](cms),  CN/C=[74.3], IA=[9.27](mm),
                  N=[3], TP=[0.42]hrs,
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
CALIB NASHYD      ID=[2], NHYD=["2A-Pre"], DT=[1]min, AREA=[4.56](ha),
                  DWF=[0](cms),  CN/C=[73.5], IA=[9.7](mm),
                  N=[3], TP=[0.38]hrs,
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
CALIB NASHYD      ID=[3], NHYD=["2B-Pre"], DT=[1]min, AREA=[0.87](ha),
                  DWF=[0](cms),  CN/C=[73.9], IA=[9.4](mm),
                  N=[3], TP=[0.26]hrs,
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
CALIB NASHYD      ID=[5], NHYD=["2C-Pre"], DT=[1]min, AREA=[5.91](ha),
                  DWF=[0](cms),  CN/C=[74.6], IA=[8.97](mm),
                  N=[3], TP=[0.34]hrs,
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
*#-----|-----|North (Catchment 2) Internal-----|
*%------|-----|
ADD HYD           IDsum=[4], NHYD=["2A2B"], IDs to add=[2,3]
*%------|-----|

```

```

*#-----|-----|North (Catchment 2) Total-----|
*%------|-----|
ADD HYD           IDsum=[4], NHYD=["2-Pre"], IDs to add=[2,3,5]
*%------|-----|
*%------|-----|
CALIB NASHYD      ID=[6], NHYD=["3A-Pre"], DT=[1]min, AREA=[.49](ha),
                  DWF=[0](cms),  CN/C=[43.3], IA=[7.72](mm),
                  N=[3], TP=[0.29]hrs,
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|

*#-----|-----|
*#-----|-----|
*#-----|-----|POST-DEVELOPMENT QUANTITY CONTROL MODEL-----|
*#-----|-----|
*#-----|-----|LANDS DRAINING TO NORTH SWM POND-----|
*#-----|-----|NORTH INLET-----|
*%------|-----|
CALIB STANDHYD    ID=[1], NHYD=["2A-1"], DT=[1](min), AREA=[3.85](ha),
                  XIMP=[0.460], TIMP=[0.610], DWF=[0](cms), LOSS=[2],
                  SCS curve number CN=[79.0],
                  Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
                  LGP=[17](m), MNP=[0.25], SCP=[0](min),
                  Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[160](m), MNI=[0.013], SCI=[0](min),
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
CALIB STANDHYD    ID=[3], NHYD=["2C-1"], DT=[1](min), AREA=[2.64](ha),
                  XIMP=[0.386], TIMP=[0.386], DWF=[0](cms), LOSS=[2],
                  SCS curve number CN=[79.0],
                  Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
                  LGP=[80](m), MNP=[0.25], SCP=[0](min),
                  Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[133](m), MNI=[0.013], SCI=[0](min),
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
CALIB STANDHYD    ID=[8], NHYD=["2C-2"], DT=[1](min), AREA=[1.3](ha),
                  XIMP=[0.750], TIMP=[0.750], DWF=[0](cms), LOSS=[2],
                  SCS curve number CN=[79.0],
                  Pervious surfaces: IAPer=[5.0](mm), SLPP=[2.0](%),
                  LGP=[30](m), MNP=[0.25], SCP=[0](min),
                  Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                  LGI=[93](m), MNI=[0.013], SCI=[0](min),
                  RAINFALL=[ , , , , ](mm/hr),  END=-1
*%------|-----|
CALIB STANDHYD    ID=[9], NHYD=["2C-3"], DT=[1](min), AREA=[1.97](ha),
                  XIMP=[0.386], TIMP=[0.695], DWF=[0](cms), LOSS=[2],

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```

SCS curve number CN=[79.0],
Pervious  surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[30](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[115](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1

*%------|-----|
CALIB STANDHYD ID=[5], NHYD=["2A-4"], DT=[1](min), AREA=[0.7](ha),
XIMP=[0.357], TIMP=[0.361], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious  surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[68](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1

*%------|-----|
CALIB NASHYD ID=[6], NHYD=["2B"], DT=[1]min, AREA=[0.87](ha),
DWF=[0](cms), CN/C=[69.2], IA=[5.31](mm),
N=[3], TP=[0.29]hrs,
RAINFALL=[ , , , , ](mm/hr), END=-1

*#-----|-----|
ADD HYD IDsum=[7], NHYD=["NSWM1"], IDs to add=[1,3,8,9,6]
*#-----|-----|
*#-----|-----|
ADD HYD IDsum=[4], NHYD=["NSWM1"], IDs to add=[1,3,8,9,5,6]
*#-----|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-N"], IDin=[4],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.021 ]
[ 0.024 , 0.066 ]
[ 0.033 , 0.116 ]
[ 0.040 , 0.174 ]
[ 0.334 , 0.236 ]
[ 0.384 , 0.300 ]
[ 0.429 , 0.367 ]
[ 0.469 , 0.437 ]
[ 0.488 , 0.473 ]
[ 1.316 , 0.548 ]
[ 2.305 , 0.587 ]
[ 3.749 , 0.630 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[5], NHYDovf=["NOvf"]

*%------|-----|
*#-----|-----|
ADD HYD IDsum=[6], NHYD=["NORTH"], IDs to add=[3,5]

```

```

*#-----|-----|
*#-----|-----|
*#-----|-----|
*#-----|-----|
*%------|-----|
CALIB STANDHYD ID=[5], NHYD=["1A"], DT=[1](min), AREA=[8.2](ha),
XIMP=[0.373], TIMP=[0.605], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[79.0],
Pervious  surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[234](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*#-----|-----|
*%------|-----|
ROUTE RESERVOIR IDout=[3], NHYD=["SWMF-S"], IDin=[5],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]
[ 0.008 , 0.015 ]
[ 0.024 , 0.048 ]
[ 0.033 , 0.088 ]
[ 0.040 , 0.133 ]
[ 0.219 , 0.182 ]
[ 0.246 , 0.234 ]
[ 0.270 , 0.291 ]
[ 0.293 , 0.352 ]
[ 0.303 , 0.383 ]
[ 0.964 , 0.450 ]
[ 1.678 , 0.485 ]
[ -1 , -1 ] (max twenty pts)
IDovf=[7], NHYDovf=["SOvf"]

*#-----|-----|
*#-----|-----|
*%------|-----|
CALIB STANDHYD ID=[8], NHYD=["3A"], DT=[1](min), AREA=[0.49](ha),
XIMP=[0.645], TIMP=[0.645], DWF=[0](cms), LOSS=[2],
SCS curve number CN=[49.0],
Pervious  surfaces: IAper=[5.0](mm), SLPP=[2.0](%),
                    LGP=[17](m), MNP=[0.25], SCP=[0](min),
Impervious surfaces: IAimp=[2.0](mm), SLPI=[2.0](%),
                    LGI=[57](m), MNI=[0.013], SCI=[0](min),
RAINFALL=[ , , , , ](mm/hr), END=-1
*%------|-----|
ROUTE RESERVOIR IDout=[9], NHYD=["BIORET"], IDin=[8],
RDT=[1](min),
TABLE of ( OUTFLOW-STORAGE ) values
(cms) - (ha-m)
[ 0.0 , 0.0 ]

```