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*      TRAILS UNIT III DRAINAGE MASTER PLAN
*      HYDROLOGIC MODEL--FULLY DEVELOPED CONDITIONS
*      12 MAY 2014
*      ***MODIFIED 8/2016 - RESPEC
*      1. TURNED ON SURGE POND FOR POND D.1, 11 CFS BYPASS
*      2. CHANGED INFLOW ID FROM 67 TO 62 FOR POND.D1
*      3. TURNED ON ADD COMMANED TO COMBINE ID 61 AND 68
*      4. CHANGED ROUTE MCUNGE INFLOW ID FROM 68 TO 67
*      5. TURNED OFF OLD RATING CURVE FOR POND.D1
*      6. CREATED NEW RATING CURVE FOR POND.D1
*      7. ROUTED HYD FROM POND.D1 TO POND.D
*      8. TURNED OFF ROUTE FROM RAINBOW TO POND.D
*      9. TURNED OFF PRINT COMMAND FOR ID 72
*      10. CHANGED I FROM 72 TO 71 FOR ID 73
*      11. ID 73 NEW INFLOW HYD TO POND.D
*      12. TREATMENT TYPE PERCENTAGES CHANGED FOR ID 28
*      13. TURNED OFF ADD COMMAND FOR ID 74
*      14. TEATMENT TYPE PERCENTAGES CHANGED FOR ID 25
*      15. TURNED OFF ADD, PRINT, AND PUNCH FOR ID 75
*      16. ADDED PUNCH COMMAND FOR ID 73
*      17. DIVIDE HYD ID CHANGED FROM 75 TO 73
*      18. TURNED OFF ROUTE RESERVOIR FOR POND.F5
*      19. TURNED OFF PRINT HYD FOR ID 51
*      20. ADDED BASIN.F8 TO BASINS F5 AND F7
*      21. ADDED BASIN.D5 TO BASINS F5,F7,F8
*      22. ADDED BASIN.D6 TO BASINS F5,F7,F8,D5
*      23. TURNED OFF ADD/PRINT FOR ID 78
*      24. ADDED NEW ROUTE RESERVOIR FOR POND.F5
*      25. CHANGED ID 78 TO 79 FOR BASINS F1T08
*      26. CHANGED AREA OF BASIN.D5 TO EXCLUDE POND.D
*      27. CHANGED TREATMENT TYPE PERCENTAGES FOR BASIN.F8
*      28. TURNED OFF POND.D HYD TEXT
*      29. CHANGED POND.D1 FROM SURGE TO DETENTION
*
*****
*
*      HYDROLOGIC MODEL FOR OFFSITE AND ONSITE BASINS
*      100-YEAR, 24-HOUR STORM:
*
*
*      PRECIPITATION:
*      P60 = 1.84"
*      P360 = 2.20"
*      P1440 = 2.66"
*
*
*****
*
START          TIME=0.0 HR   PUNCH CODE=0
*
*
*
RAINFALL      TYPE=2   RAIN QUARTER=0.0 IN
              RAIN ONE=1.84 IN   RAIN SIX=2.20 IN
              RAIN DAY=2.66 IN   DT=0.10 HRS
SEDIMENT BULK CODE=1   FACTOR=1.0
*
*
*
*****
*
S*****
*
S***** COMPUTE ONSITE BASINS FROM THE TRAILS
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*S*****
*
COMPUTE NM HYD      ID=50  HYD NO=OFFSITE1  DA=.1998 SQ MI
%A=100  %B=0  %C=0 %D=0
TP=-.66 HR  RAIN=-1
PRINT HYD          ID=50 CODE=10
*
ROUTE RESERVOIR      ID=53 HYD=OFF.POND.1  INFLOW ID=50 CODE=5
OUTFLOW  STORAGE      DEPTH
0          0          0
3.85      0.037      1
5.44      0.218      2
6.66      0.610      3
7.69      1.150      4
8.60      1.759      5
9.42      2.439      6

PRINT HYD          ID=53 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.0176
DIA=2.0  N=0.013
ROUTE MCUNGE      ID=54 HYD=RTE.OFF.POND INFLOW ID=53
DT=0.0  L=740 NS=0  SLOPE=0.0176
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=54 CODE=0
*
COMPUTE NM HYD      ID=21  HYD NO=BASIN.A1  DA=.02422 SQ MI
%A=0  %B=12.5  %C=12.5 %D=75.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=21 CODE=10
*
COMPUTE NM HYD      ID=22  HYD NO=BASIN.A2  DA=.01331 SQ MI
%A=0  %B=33.0  %C=33.0 %D=34.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=22 CODE=10
*
*
COMPUTE NM HYD      ID=23  HYD NO=BASIN.A3  DA=.00502 SQ MI
%A=0  %B=5.0  %C=5.0 %D=90.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=23 CODE=10
*
*
COMPUTE NM HYD      ID=24  HYD NO=BASIN.A4  DA=.01186 SQ MI
%A=0  %B=7.5  %C=7.5 %D=85.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=24 CODE=10
*
*
COMPUTE NM HYD      ID=25  HYD NO=BASIN.A5  DA=.01830 SQ MI
%A=0  %B=17.0  %C=17.0 %D=66.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=25 CODE=10
*
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.A6  DA=.02652 SQ MI
%A=0  %B=19.0  %C=19.0 %D=62.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=26 CODE=10
*

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*
COMPUTE NM HYD          ID=27  HYD NO=BASIN.A7  DA=.01055 SQ MI
                        %A=0  %B=12.5  %C=12.5  %D=75.0
                        TP=-.133 HR  RAIN=-1
PRINT HYD              ID=26 CODE=10
*
ADD HYD                ID=55 HYD=01.A2 ID I=54 II=22
PRINT HYD              ID=55 CODE=10
*
ADD HYD                ID=56 HYD=01A2.A1 ID I=55 II=21
PRINT HYD              ID=56 CODE=10
*
*
ADD HYD                ID=57 HYD=01A2A1.A3 ID I=56 II=23
PRINT HYD              ID=57 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.007
                        DIA=4.0  N=0.013
ROUTE MCUNGE           ID=58 HYD=RTE.01A2A1.A3 INFLOW ID=57
                        DT=0.0  L=1000 NS=0  SLOPE=0.007
                        MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD              ID=58 CODE=0
*
*
ADD HYD                ID=59 HYD=A1TOA5 ID I=58 II=25
PRINT HYD              ID=59 CODE=10
*
*
*****
*DIVIDE HYD            ID=59 Q=8.26 ID I=61  HYD NO=BYPASS.A5
                        ID II=62 HYD NO=SURGE.A5
*PRINT HYD             ID=61 CODE=10
*PRINT HYD             ID=62 CODE=10
*****
*
*
ROUTE RESERVOIR        ID=60 HYD=POND.A5  INFLOW ID=59 CODE=5
                        OUTFLOW  STORAGE  DEPTH
                        0.0      0.0      5511
                        2.13     0.35     5512
                        5.13     1.03     5513
                        8.82     1.94     5514
                        13.07    3.15     5515
                        17.82    4.61     5516

PRINT HYD              ID=60 CODE=10
*
*
*ADD HYD               ID=59 HYD=TOTALA5 ID I=61 II=60
*PRINT HYD             ID=59 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.013
                        DIA=2.0  N=0.013
ROUTE MCUNGE           ID=61 HYD=RTE.A4 INFLOW ID=24
                        DT=0.0  L=900 NS=0  SLOPE=0.013
                        MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD              ID=61 CODE=0
*

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*
ADD HYD          ID=62 HYD=RTE.A4.A6 ID I=61 II=26
PRINT HYD        ID=62 CODE=10
*
*
ADD HYD          ID=63 HYD=RTEA4A6.PONDA5 ID I=62 II=60
PRINT HYD        ID=63 CODE=10
*
*
*****
*DIVIDE HYD          ID=63 Q=8.26 ID I=61 HYD NO=BYPASS.A6
                   ID II=62 HYD NO=SURGE.A6
*PRINT HYD        ID=61 CODE=10
*PRINT HYD        ID=62 CODE=10
*****
*
*
ROUTE RESERVOIR   ID=64 HYD=POND.A6 INFLOW ID=63 CODE=5
OUTFLOW STORAGE DEPTH
0                0                5500
2.13            0.30            5501
5.13            0.85            5502
8.82            1.57            5503
13.07           2.47            5504
17.82           3.52            5505
23.04           4.72            5506
100.00          6.06            5507
*
PRINT HYD          ID=64 CODE=10
*
*
*ADD HYD          ID=66 HYD=TOTALA6 ID I=61 II=64
*PRINT HYD        ID=66 CODE=10
*
*
ADD HYD          ID=65 HYD=PONDA6.A7 ID I=64 II=27
PRINT HYD        ID=65 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.021
                   DIA=2.0 N=0.013
ROUTE MCUNGE      ID=66 HYD=RTE.A6.A7 INFLOW ID=65
                   DT=0.0 L=520 NS=0 SLOPE=0.021
                   MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=66 CODE=0
*
*
COMPUTE NM HYD    ID=25 HYD NO=BASIN.D1 DA=.01816 SQ MI
                   %A=0 %B=19.0 %C=19.0 %D=62.0
                   TP=-.133 HR RAIN=-1
PRINT HYD          ID=25 CODE=10
*
ADD HYD          ID=67 HYD=A6.A7.D1 ID I=66 II=25
PRINT HYD        ID=67 CODE=10
*
*
*** DIVIDE HYD BELOW WAS TURNED OFF - 8/2016 MOD TURNS IT
*** BACK ON. ID CHANGES ARE MADE TO ROUTE SURGE HYDROGRAPH
*** THROUGH POND D.1 - RESPEC
*** TURNED OFF DIVIDE HYD - RESPEC
*****
*DIVIDE HYD          ID=67 Q=11.07 ID I=61 HYD NO=BYPASS.AD1

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*                                     ID II=62 HYD NO=SURGE.D1
*PRINT HYD                          ID=61 CODE=10
*PRINT HYD                          ID=62 CODE=10
*****
*
*
*** CHANGED INFLOW ID FROM 67 TO 62 - RESPEC
*** TURNED OFF OLD RATING CURVE FOR POND.D1 - RESPEC
*ROUTE RESERVOIR    ID=68 HYD=POND.D1    INFLOW ID=62 CODE=6.3
*                   OUTFLOW    STORAGE    DEPTH
*                   0           0          5471
*                   2.83        2.47        5472
*                   6.84        3.52        5473
*                   11.75       4.72        5474
*                   17.42       6.06        5475
*
*** CREATED NEW POND.D1 RATING CURVE - RESPEC
*** TURNED OFF RATING CURVE - RESPEC
*ROUTE RESERVOIR    ID=68 HYD=POND.D1    INFLOW ID=62 CODE 6.3
*                   OUTFLOW    STORAGE    DEPTH
*                   0           0          5471
*                   6.65        0.16        5472
*                   16.07       0.23        5473
*                   27.61       0.31        5474
*                   40.93       0.39        5475
*
*** NEW RATING CURVE FOR DETENTION - RESPEC
ROUTE RESERVOIR    ID=68 HYD=POND.D1    INFLOW ID=67 CODE 6.3
*                   OUTFLOW    STORAGE    DEPTH
*                   0           0          5471
*                   7.61        0.066       5472
*                   24.06       0.149       5473
*                   41.67       0.250       5474
*                   53.79       0.370       5475
*
PRINT HYD              ID=68 CODE=10
*
*
*** TURNED ON THE ADD/PRINT COMMAND BELOW - RESPEC
*** TURNED OFF ADD/PRINT - RESPEC
*ADD HYD              ID=67 HYD=TOTALD1 ID I=61 II=68
*PRINT HYD            ID=67 CODE=10
*
*
*** CHANGED INFLOW ID FROM 68 TO 67 - RESPEC
*** ROUTED TO POND.D - RESPEC
*** CHANGED INFLOW ID FROM 67 TO 68
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.0153
                        DIA=3.5 N=0.013
ROUTE MCUNGE          ID=69 HYD=RTE.D1 INFLOW ID=68
                        DT=0.0 L=2550 NS=0 SLOPE=0.0153
                        MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
*** OLD ROUTING - RESPEC
*COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.018
*                   DIA=2.0 N=0.013
*ROUTE MCUNGE          ID=69 HYD=RTE.D1 INFLOW ID=67
*                   DT=0.0 L=1470 NS=0 SLOPE=0.018
*                   MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD              ID=69 CODE=0
*
*

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****HERITAGE UNIT 1****
*
COMPUTE NM HYD      ID=25  HYD NO=BASIN.D2  DA=.03456 SQ MI
                    %A=0  %B=28.5  %C=28.5 %D=43.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=25 CODE=10
*
ADD HYD             ID=70  HYD=PONDD1.D2 ID I=69 II=25
PRINT HYD           ID=70 CODE=10
*
*
*****UNIVERSE BLVD*****
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.D3  DA=.00580 SQ MI
                    %A=0  %B=5.0  %C=5.0 %D=90.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=26 CODE=10
*
ADD HYD             ID=71  HYD=D1.D2.D3 ID I=70 II=26
PRINT HYD           ID=71 CODE=10
*
*
*** TUNRED OFF ROUTING - RESPEC
*COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.02
*
*   DIA=4.0  N=0.013
*ROUTE MCUNGE       ID=72  HYD=RTE.D1 INFLOW ID=71
*                   DT=0.0  L=1150 NS=0  SLOPE=0.02
*                   MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
*** TURNED OFF PRINT COMMAND - RESPEC
*PRINT HYD          ID=72 CODE=0
*
*
****HERITAGE UNIT 2****
*
COMPUTE NM HYD      ID=27  HYD NO=BASIN.D4  DA=.01961 SQ MI
                    %A=0  %B=28.5  %C=28.5 %D=43.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=27 CODE=10
*
*
*** CHANGED I FROM 72 TO 71 - RESPEC
*S***** NEW POND D INFLOW HYDROGRAPH
ADD HYD             ID=73  HYD=D1D2D3.D4 ID I=71 II=27
PRINT HYD           ID=73 CODE=10
*
*** NEW INFLOW HYD TO POND.D - RESPEC
*** ADDED PUNCH FOR ID 73 - RESPEC
PUNCH HYD           ID=73
*
*** CHANGED B AND C (23%) TO 20% AND D (54%) TO 60% -RESPEC
*** CHANGED DA FROM 0.01367 TO 0.01155 - RESPEC
COMPUTE NM HYD      ID=28  HYD NO=BASIN.D5  DA=.01155 SQ MI
                    %A=0  %B=20.0  %C=20.0 %D=60.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=28 CODE=10
*
*** TURNED OFF ADD/PRINT COMMAND - RESPEC
*ADD HYD            ID=74  HYD=D1234.D5 ID I=73 II=28
*PRINT HYD          ID=74 CODE=10
*
*
*** CHANGED B AND C (18%) TO 20% AND D (64%) TO 60% -RESPEC

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COMPUTE NM HYD      ID=25  HYD NO=BASIN.D6  DA=.00781 SQ MI
                    %A=0.0  %B=20.0  %C=20.0 %D=60.0
                    TP=-.1333 HR  RAIN=-1
PRINT HYD           ID=25 CODE=10
*
*** TURNED OFF ADD/PRINT COMMAND - RESPEC
*ADD HYD            ID=75 HYD=D12345.D6 ID I=74 II=25
*PRINT HYD          ID=75 CODE=10
*
* DELETED 'S' TO TURN OFF TEXT - RESPEC
***** POND D INFLOW HYDROGRAPH
*** TURNED OFF PUNCH HYD - RESPEC
*PUNCH HYD          ID=75
*
*****
*** CHANGED ID FROM 75 TO 73 - RESPEC
DIVIDE HYD          ID=73 Q=13.77 ID I=31  HYD NO=BYPASS.D
                    ID II=32 HYD NO=SURGE.D
PRINT HYD           ID=31 CODE=10
PRINT HYD           ID=32 CODE=10
*****
*
*
ROUTE RESERVOIR     ID=50 HYD=POND.D  INFLOW ID=32 CODE=6.3
                    OUTFLOW  STORAGE  DEPTH
                    0         0        5429.46
                    1.87      0.30      5431
                    2.97      1.01      5432
                    4.00      1.91      5433
                    4.98      2.91      5434
                    5.90      4.00      5435
                    6.79      5.17      5436
                    7.51      6.24      5436.85
                    130.0     7.80      5438
*
*
PRINT HYD           ID=50 CODE=10
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.0057
                    DIA=2.0  N=0.013
ROUTE MCUNGE        ID=51 HYD=RTE.D  INFLOW ID=50
                    DT=0.0  L=1530 NS=0  SLOPE=0.0057
                    MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=51 CODE=0
*
*
ADD HYD             ID=75 HYD=BYPASS.RTE.D ID I=51 II=31
PRINT HYD           ID=75 CODE=10
*
*
COMPUTE NM HYD      ID=20  HYD NO=BASIN.C  DA=.01278 SQ MI
                    %A=0  %B=25.0  %C=25.0 %D=50.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=20 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.027
                    DIA=3.0  N=0.013
ROUTE MCUNGE        ID=76 HYD=RTE.C  INFLOW ID=20
                    DT=0.0  L=1020 NS=0  SLOPE=0.027
                    MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*

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PRINT HYD          ID=76 CODE=0
*
*
*****SANTA FE UNIT 1*****
*
COMPUTE NM HYD      ID=20  HYD NO=BASIN.F1  DA=.02208 SQ MI
                    %A=0  %B=21.7  %C=21.8 %D=56.5
                    TP=-.133 HR  RAIN=-1
PRINT HYD          ID=20 CODE=10
*
*
ADD HYD             ID=77 HYD=C.F1 ID I=76 II=20
PRINT HYD           ID=77 CODE=10
*
*
*****UNIVERSE BLVD*****
*
COMPUTE NM HYD      ID=21  HYD NO=BASIN.F2  DA=.00573 SQ MI
                    %A=0  %B=5.0  %C=5.0 %D=90.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=21 CODE=10
*
*
ADD HYD             ID=78 HYD=CF1.F2 ID I=77 II=21
PRINT HYD           ID=78 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.023
                    DIA=3.0  N=0.013
ROUTE MCUNGE        ID=79 HYD=RTE.CF1F2 INFLOW ID=78
                    DT=0.0  L=1560 NS=0  SLOPE=0.023
                    MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=79 CODE=0
*
*
*****TAOS AT THE TRAILS*****
*
COMPUTE NM HYD      ID=22  HYD NO=BASIN.F3  DA=.03563 SQ MI
                    %A=0  %B=21.7  %C=21.8 %D=56.5
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=22 CODE=10
*
*
ADD HYD             ID=70 HYD=CF1F2.F3 ID I=79 II=22
PRINT HYD           ID=70 CODE=10
*
*
*****SANTA FE III*****
*
COMPUTE NM HYD      ID=23  HYD NO=BASIN.F4  DA=.03892 SQ MI
                    %A=0  %B=25.0  %C=25.0 %D=50.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD           ID=23 CODE=10
*
*
ADD HYD             ID=71 HYD=CF1F2F3.F4 ID I=70 II=23
PRINT HYD           ID=71 CODE=10
*
*
ADD HYD             ID=70 HYD=CF1F2F3F4.D ID I=71 II=75
PRINT HYD           ID=70 CODE=10
*
*
*
COMPUTE NM HYD      ID=24  HYD NO=BASIN.F5  DA=.01852 SQ MI
                    %A=0  %B=12.5  %C=12.5 %D=75.0

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TP=-.133 HR   RAIN=-1
PRINT HYD      ID=24 CODE=10
*
*
COMPUTE NM HYD      ID=25  HYD NO=BASIN.J10  DA=.00628 SQ MI
%A=0  %B=5.0  %C=5.0 %D=90.0
TP=-.133 HR   RAIN=-1
PRINT HYD      ID=25 CODE=10
*
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.J11  DA=.00733 SQ MI
%A=0  %B=5.0  %C=5.0 %D=90.0
TP=-.133 HR   RAIN=-1
PRINT HYD      ID=26 CODE=10
*
ADD HYD          ID=23 HYD=J10.J11 ID I=25 II=26
PRINT HYD      ID=23 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.004
DIA=3.0  N=0.013
ROUTE MCUNGE      ID=10 HYD=RTE.J10J11 INFLOW ID=23
DT=0.0  L=1450 NS=0  SLOPE=0.004
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=10 CODE=0
*
*
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.F7  DA=.01097 SQ MI
%A=0.0  %B=7.5  %C=7.5 %D=85.0
TP=-.1333 HR   RAIN=-1
PRINT HYD      ID=26 CODE=10
*
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.004
DIA=3.5  N=0.013
ROUTE MCUNGE      ID=74 HYD=RTE.F7 INFLOW ID=26
DT=0.0  L=500 NS=0  SLOPE=0.004
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=74 CODE=0
*
*
ADD HYD          ID=75 HYD=F7.F5 ID I=74 II=24
PRINT HYD      ID=75 CODE=10
*
*
*** TURNED OFF ROUTE RESERVOIR - RESPEC
*ROUTE RESERVOIR  ID=51 HYD=POND.F5  INFLOW ID=75 CODE=5
*
*   OUTFLOW  STORAGE  DEPTH
*   0         0       5421
*   3.00      0.1993   5422
*   7.00      0.4325   5423
*   11.00     0.7053   5424
*   15.00     1.0245   5425
*   20.00     1.3979   5426
*   50.00     1.8334   5427
*
*
*** TURNED OFF PRINT HYD - RESPEC
*PRINT HYD      ID=51 CODE=10

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*
*
*** CHANGED B AND C (18%) TO 23% AND D (64%) TO 54% -RESPEC
COMPUTE NM HYD      ID=27  HYD NO=BASIN.F8  DA=.00781 SQ MI
                    %A=0.0  %B=23.0  %C=23.0  %D=54.0
                    TP=-.1333 HR  RAIN=-1
PRINT HYD           ID=27  CODE=10
*
*
*** ADDED BASIN.F8 TO BASIN.D5 - RESPEC
ADD HYD             ID=40  HYD=F8.D5  ID I=27  II=28
PRINT HYD           ID=40  CODE=10
*
*
*** ADDED BASIN.D6 TO ID 40 - RESPEC
*S***** POND F5 INFLOW HYDROGRAPH (PREV ID 27)
ADD HYD             ID=41  HYD=F8.D56  ID I=40  II=25
PRINT HYD           ID=41  CODE=10
*** ID 41 NEW INFLOW HYD TO POND.F5 - RESPEC
*
*
PUNCH HYD           ID=41
*
*** ADDED BASIN.F5 AND F7 TO ID 41 - RESPEC
ADD HYD             ID=42  HYD=F578.D56  ID I=41  II=75
PRINT HYD           ID=42  CODE=10
*
*
*** NEW ROUTE RESERVOIR FOR POND.F5 - RESPEC
ROUTE RESERVOIR    ID=52  HYD=POND.F5  INFLOW ID=42  CODE=5
                   OUTFLOW  STORAGE    DEPTH
                   0         0          5421
                   3.00      0.1993     5422
                   7.00      0.4325     5423
                   11.00     0.7053     5424
                   15.00     1.0245     5425
                   20.00     1.3979     5426
                   50.00     1.8334     5427

PRINT HYD           ID=52  CODE=10
*
*
*** TURNED OFF ADD/PRINT FOR ID 78 - RESPEC
*ADD HYD            ID=78  HYD=PONDF5.F8  ID I=75  II=27
*PRINT HYD          ID=78  CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.003
                   DIA=3.5  N=0.013
ROUTE MCUNGE       ID=77  HYD=RTE.PONDF5  INFLOW ID=52
                   DT=0.0  L=590  NS=0  SLOPE=0.004
                   MATCODE=0  REGCODE=0  CCODE=0  MM CODE=0
*
PRINT HYD           ID=77  CODE=0
*
*
*** CHANGED ID FROM 78 TO 79 - RESPEC
ADD HYD             ID=79  HYD=F1T0F8  ID I=77  II=70
PRINT HYD           ID=79  CODE=10
*
*** CHANGED HYD ID FROM 78 TO 79 - RESPEC

```

```

*****
DIVIDE HYD          ID=79 Q=6.20 ID I=31  HYD NO=BYPASS.F
                   ID II=32 HYD NO=SURGE.F
PRINT HYD          ID=31 CODE=10
PRINT HYD          ID=32 CODE=10
*****
*
*
ROUTE RESERVOIR    ID=52 HYD=POND.F  INFLOW ID=32 CODE=6.3
OUTFLOW  STORAGE  DEPTH
0         0        5415.08
3.80     0.25     5416.0
6.52     0.55     5417.0
8.74     1.69     5418.0
10.68    3.08     5419.0
12.41    4.54     5420.0
14.00    6.08     5421.0
15.47    7.70     5422.0
16.85    9.39     5423.0
18.29    11.16    5424.0
18.60    11.76    5424.33
100.00   13.02    5425.0
*
*
PRINT HYD          ID=52 CODE=10
*
*
ADD HYD            ID=53 HYD=BYPASSF.PONDF ID I=31 II=52
PRINT HYD          ID=53 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.004
                   DIA=2.0  N=0.013
ROUTE MCUNGE       ID=77 HYD=RTE.PONDF INFLOW ID=53
                   DT=0.0  L=850 NS=0  SLOPE=0.004
                   MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=77 CODE=0
*
*
*****RESERVE*****
*
COMPUTE NM HYD     ID=20  HYD NO=BASIN.G1  DA=.02531 SQ MI
                   %A=0  %B=25.0  %C=25.0 %D=50.0
                   TP=-.133 HR  RAIN=-1
PRINT HYD          ID=20 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.007
                   DIA=3.0  N=0.013
ROUTE MCUNGE       ID=78 HYD=RTE.G1 INFLOW ID=20
                   DT=0.0  L=580 NS=0  SLOPE=0.007
                   MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=78 CODE=0
*
*
*****SANTA FE 2*****
*
COMPUTE NM HYD     ID=21  HYD NO=BASIN.G2  DA=.02530 SQ MI
                   %A=0  %B=25.0  %C=25.0 %D=50.0
                   TP=-.133 HR  RAIN=-1
PRINT HYD          ID=21 CODE=10

```

```

*
*
ADD HYD          ID=30 HYD=G1.G2 ID I=78 II=21
PRINT HYD        ID=30 CODE=10
*
*
ADD HYD          ID=31 HYD=G1G2.PONDF ID I=30 II=77
PRINT HYD        ID=31 CODE=10
*
*
*****
DIVIDE HYD        ID=31 Q=17.61 ID I=32 HYD NO=BYPASS.G
                  ID II=33 HYD NO=SURGE.G
PRINT HYD        ID=32 CODE=10
PRINT HYD        ID=33 CODE=10
*****
*
*
ROUTE RESERVOIR  ID=34 HYD=POND.G INFLOW ID=33 CODE=6.3
OUTFLOW STORAGE DEPTH
0           0           5415.67
2.50        0.23        5417.0
4.20        0.84        5418.0
5.77        1.83        5419.0
7.24        3.17        5420.0
8.63        4.70        5421.0
9.95        6.34        5422.0
10.45       7.21        5422.5
100.00      8.10        5423.0
*
*
PRINT HYD        ID=24 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.006
DIA=3.0 N=0.013
ROUTE MCUNGE     ID=78 HYD=RTE.PONDG INFLOW ID=34
DT=0.0 L=1440 NS=0 SLOPE=0.006
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=78 CODE=0
*
*
ADD HYD          ID=79 HYD=BYPASS.RTE.G ID I=78 II=32
PRINT HYD        ID=79 CODE=10
*
*
*****
*****POND G DISCHARGES INTO POND K*****
*
COMPUTE NM HYD   ID=55 HYD NO=OFFSITE2 DA=.0805 SQ MI
%A=100 %B=0.0 %C=0.0 %D=0.0
TP=-.66 HR RAIN=-1
PRINT HYD        ID=55 CODE=10
*
*
ROUTE RESERVOIR  ID=50 HYD=OFFPOND2 INFLOW ID=55 CODE=5
OUTFLOW STORAGE DEPTH
0           0           0
2.16        0.047       1
3.06        0.222       2
3.75        0.466       3

```

4.33	0.751	4
4.84	1.081	5

*
*

PRINT HYD ID=50 CODE=10

*
*

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.011
DIA=2.0 N=0.013

ROUTE MCUNGE ID=70 HYD=RTE.OFFPOND2 INFLOW ID=50
DT=0.0 L=900 NS=0 SLOPE=0.011
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

*

PRINT HYD ID=70 CODE=0

*
*

COMPUTE NM HYD ID=30 HYD NO=BASIN.B DA=.01998 SQ MI
%A=0 %B=34.0 %C=34.0 %D=32.0
TP=-.133 HR RAIN=-1

PRINT HYD ID=30 CODE=10

*
*

ROUTE RESERVOIR	ID=51	HYD=POND.B	INFLOW	ID=30	CODE=5
	OUTFLOW	STORAGE	DEPTH		
	0	0	5515		
	1.71	0.06	5516		
	2.42	0.24	5517		
	2.96	0.55	5518		
	3.42	0.99	5519		
	3.82	1.67	5520		

*
*

PRINT HYD ID=51 CODE=10

*
*

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.03
DIA=2.0 N=0.013

ROUTE MCUNGE ID=71 HYD=RTE.PONDB INFLOW ID=51
DT=0.0 L=1180 NS=0 SLOPE=0.03
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

*
*

PRINT HYD ID=71 CODE=0

*
*

*ADD HYD ID=72 HYD=OFF.B ID I=71 II=70
*PRINT HYD ID=72 CODE=10

*
*

COMPUTE NM HYD ID=30 HYD NO=BASINE1.1 DA=.02753 SQ MI
%A=0.0 %B=33.0 %C=33.0 %D=34.0
TP=-0.133 HR RAIN=-1

PRINT HYD ID=30 CODE=10

*
*

ADD HYD ID=73 HYD=OFF.E11 ID I=70 II=30
PRINT HYD ID=73 CODE=10

*
*

COMPUTE NM HYD ID=31 HYD NO=BASINE1.2 DA=.00588 SQ MI
%A=0.0 %B=33.0 %C=33.0 %D=34.0
TP=-0.133 HR RAIN=-1

PRINT HYD ID=31 CODE=10

*

```

*
COMPUTE NM HYD          ID=32  HYD NO=BASIN.E2  DA=.01348 SQ MI
                        %A=0.0  %B=18.0  %C=18.0 %D=64.0
                        TP=-.133 HR  RAIN=-1
PRINT HYD              ID=32 CODE=10
*
*
ADD HYD                ID=72  HYD=E2.E12  ID I=31  II=32
PRINT HYD              ID=72 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.002
                        DIA=3.0  N=0.013
ROUTE MCUNGE          ID=76  HYD=RTE.E12  INFLOW ID=72
                        DT=0.0  L=800  NS=0  SLOPE=0.01
                        MATCODE=0  REGCODE=0  CCODE=0  MM CODE=0
*
PRINT HYD              ID=76 CODE=0
*
*
COMPUTE NM HYD          ID=33  HYD NO=BASIN.E3  DA=.01197 SQ MI
                        %A=0.0  %B=25.0  %C=25.0 %D=50.0
                        TP=-0.133 HR  RAIN=-1
PRINT HYD              ID=33 CODE=10
*
*
COMPUTE NM HYD          ID=34  HYD NO=BASIN.E4  DA=.00577 SQ MI
                        %A=0.0  %B=5.0  %C=5.0 %D=90.0
                        TP=-0.133 HR  RAIN=-1
PRINT HYD              ID=34 CODE=10
*
*
ADD HYD                ID=74  HYD=E3.E4  ID I=33  II=34
PRINT HYD              ID=74 CODE=10
*
*
ADD HYD                ID=75  HYD=E3E4.PONDB  ID I=74  II=71
PRINT HYD              ID=75 CODE=10
*
*
ADD HYD                ID=74  HYD=E3E4B.OFFE11  ID I=75  II=73
PRINT HYD              ID=74 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.026
                        DIA=4.0  N=0.013
ROUTE MCUNGE          ID=77  HYD=RTE.E1E4  INFLOW ID=74
                        DT=0.0  L=1210  NS=0  SLOPE=0.026
                        MATCODE=0  REGCODE=0  CCODE=0  MM CODE=0
*
PRINT HYD              ID=77 CODE=0
*
*
ADD HYD                ID=78  HYD=E1E4.E12  ID I=77  II=76
PRINT HYD              ID=78 CODE=10
*
*
COMPUTE NM HYD          ID=35  HYD NO=BASIN.E5  DA=.04402 SQ MI
                        %A=0.0  %B=29.0  %C=29.0 %D=42.0
                        TP=-0.133 HR  RAIN=-1
PRINT HYD              ID=35 CODE=10
*
*

```

```

ADD HYD          ID=80 HYD=E1E4.E5 ID I=78 II=35
PRINT HYD        ID=80 CODE=10
*
*
COMPUTE NM HYD    ID=36  HYD NO=BASIN.E6  DA=.00488 SQ MI
                  %A=0.0  %B=5.0  %C=5.0 %D=90.0
                  TP=-0.133 HR  RAIN=-1
PRINT HYD        ID=36 CODE=10
*
*
ADD HYD          ID=40 HYD=E1E6 ID I=80 II=36
PRINT HYD        ID=40 CODE=10
*
*
*****
DIVIDE HYD        ID=40 Q=15.5 ID I=61  HYD NO=BYPASS.E
                  ID II=62 HYD NO=SURGE.E
PRINT HYD        ID=61 CODE=10
PRINT HYD        ID=62 CODE=10
*****
*
*
ROUTE RESERVOIR  ID=37 HYD=POND.E  INFLOW ID=62 CODE=6.3
                  OUTFLOW  STORAGE  DEPTH
                  0.0      0.00     5441.6
                  3.31     1.37     5444
                  4.53     2.73     5445
                  5.68     4.25     5446
                  6.77     5.97     5447
                  7.81     7.52     5448
                  50.0     9.07     5449
*
PRINT HYD        ID=37 CODE=10
*
*
ADD HYD          ID=40 HYD=TOTALE ID I=61 II=37
PRINT HYD        ID=40 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.022
                  DIA=2.5  N=0.013
ROUTE MCUNGE     ID=38 HYD=RTE.PONDE INFLOW ID=40
                  DT=0.0  L=1200 NS=0  SLOPE=0.022
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=38 CODE=0
*
*
***PARK***
*
COMPUTE NM HYD    ID=32  HYD NO=BASIN.P  DA=.00845 SQ MI
                  %A=43  %B=25  %C=25 %D=7
                  TP=-.133 HR  RAIN=-1
PRINT HYD        ID=32 CODE=10
*
*
***VALLE VISTA***
*
COMPUTE NM HYD    ID=33  HYD NO=BASIN.H1  DA=.01825 SQ MI
                  %A=0.0  %B=16  %C=16 %D=68
                  TP=-.133 HR  RAIN=-1
PRINT HYD        ID=33 CODE=10

```

```

*
*
ADD HYD          ID=43 HYD=PONDE.H1 ID I=38 II=33
PRINT HYD        ID=43 CODE=10
*
*
***RAINBOW BLVD PORTION***
*
COMPUTE NM HYD    ID=34 HYD NO=BASIN.H2 DA=.00836 SQ MI
                  %A=0.0 %B=0.0 %C=10.0 %D=90.0
                  TP=-.133 HR RAIN=-1
PRINT HYD        ID=34 CODE=10
*
*
ADD HYD          ID=44 HYD=P.H2 ID I=32 II=34
PRINT HYD        ID=44 CODE=10
*
*
ADD HYD          ID=45 HYD=PH2.H1 ID I=44 II=43
PRINT HYD        ID=45 CODE=10
*
*
*
COMPUTE NM HYD    ID=35 HYD NO=BASIN.H3 DA=.01191 SQ MI
                  %A=0.0 %B=20.0 %C=20.0 %D=60.0
                  TP=-.133 HR RAIN=-1
PRINT HYD        ID=35 CODE=10
*
*
ADD HYD          ID=46 HYD=PH1H3 ID I=45 II=35
PRINT HYD        ID=46 CODE=10
*
*
*
*****
DIVIDE HYD        ID=46 Q=21.6 ID I=47 HYD NO=BYPASS.H
                  ID II=48 HYD NO=SURGE.H
PRINT HYD        ID=47 CODE=10
PRINT HYD        ID=48 CODE=10
*****
*
*
*****
ROUTE RESERVOIR  ID=30 HYD=POND.H INFLOW ID=48 CODE=5
                  OUTFLOW STORAGE DEPTH
                  0.0      0.0      5418.65
                  2.31     0.57      5420
                  3.88     1.62      5421
                  5.36     3.02      5422
                  100.0    4.60      5423
*
PRINT HYD        ID=30 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.003
                  DIA=2.5 N=0.013
ROUTE MCUNGE     ID=49 HYD=RTE.PONDH INFLOW ID=30
                  DT=0.0 L=1600 NS=0 SLOPE=0.003
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=49 CODE=0
*
*

```

```

ADD HYD          ID=31 HYD=BYPASS.RTE.H ID I=49 II=47
PRINT HYD        ID=31 CODE=10
*
*
*****TIERRA VISTA*****
*
COMPUTE NM HYD    ID=20  HYD NO=BASIN.K1  DA=.02673 SQ MI
                  %A=0.0  %B=19.0  %C=19.0  %D=62.0
                  TP=-.1715 HR  RAIN=-1
PRINT HYD        ID=20  CODE=10
*
*
ADD HYD          ID=32 HYD=PONDH.K1 ID I=31 II=20
PRINT HYD        ID=32 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.0088
                  DIA=4.5  N=0.013
ROUTE MCUNGE     ID=33 HYD=RTE.K1 INFLOW ID=32
                  DT=0.0  L=800 NS=0  SLOPE=0.0088
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=33 CODE=0
*
*
COMPUTE NM HYD    ID=21  HYD NO=BASIN.K2  DA=.01486 SQ MI
                  %A=0.0  %B=15.0  %C=15.0  %D=70.0
                  TP=-.1715 HR  RAIN=-1
PRINT HYD        ID=21  CODE=10
*
ADD HYD          ID=34 HYD=K1.K2 ID I=33 II=21
PRINT HYD        ID=34 CODE=10
*
*
COMPUTE NM HYD    ID=22  HYD NO=BASIN.K3  DA=.00914 SQ MI
                  %A=0  %B=5.0  %C=5.0  %D=90.0
                  TP=-.133 HR  RAIN=-1
PRINT HYD        ID=22  CODE=10
*
*
ADD HYD          ID=24 HYD=PONDG.K3 ID I=79 II=22
PRINT HYD        ID=24 CODE=10
*
*
COMPUTE NM HYD    ID=23  HYD NO=BASIN.K4  DA=.0134 SQ MI
                  %A=0.0  %B=70.0  %C=30.0  %D=0.0
                  TP=-.133 HR  RAIN=-1
PRINT HYD        ID=23  CODE=10
*
*
ADD HYD          ID=25 HYD=K3.K4 ID I=24 II=23
PRINT HYD        ID=25 CODE=10
*
*
*****BASINS 2, B, E, H, L ARE LATER ROUTED THROUGH POND K*****
*
*
COMPUTE NM HYD    ID=81  HYD NO=BASIN.J1  DA=.00517 SQ MI
                  %A=0.0  %B=12.5  %C=12.5  %D=75.0
                  TP=-.1333 HR  RAIN=-1
PRINT HYD        ID=81  CODE=10
*
*****CANTATA*****

```

```

*
COMPUTE NM HYD      ID=82  HYD NO=BASIN.J2  DA=.01706 SQ MI
%A=0.0  %B=12.5  %C=12.5  %D=75.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=82  CODE=10
*
COMPUTE NM HYD      ID=83  HYD NO=BASIN.J3  DA=.00580 SQ MI
%A=0.0  %B=19.0  %C=19.0  %D=62.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=83  CODE=10
*
*****CANTATA*****
*
COMPUTE NM HYD      ID=84  HYD NO=BASIN.J4  DA=.01006 SQ MI
%A=0.0  %B=12.5  %C=12.5  %D=75.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=84  CODE=10
*
*
COMPUTE NM HYD      ID=85  HYD NO=BASIN.J5  DA=.00134 SQ MI
%A=0.0  %B=5.0  %C=5.0  %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=85  CODE=10
*
*
COMPUTE NM HYD      ID=86  HYD NO=BASIN.J6  DA=.00422 SQ MI
%A=0.0  %B=5.0  %C=5.0  %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=86  CODE=10
*
*
COMPUTE NM HYD      ID=87  HYD NO=BASIN.J7  DA=.00444 SQ MI
%A=0.0  %B=5.0  %C=5.0  %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=87  CODE=10
*
*
COMPUTE NM HYD      ID=88  HYD NO=BASIN.J8  DA=.00903 SQ MI
%A=0.0  %B=70.0  %C=30.0  %D=0.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=88  CODE=10
*
*
COMPUTE NM HYD      ID=89  HYD NO=BASIN.J9  DA=.00548 SQ MI
%A=0.0  %B=7.5  %C=7.5  %D=85.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=89  CODE=10
*
*
COMPUTE NM HYD      ID=12  HYD NO=BASIN.J12  DA=.01419 SQ MI
%A=100.0  %B=0.0  %C=0.0  %D=0.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=12  CODE=10
*
*
ADD HYD             ID=11  HYD=J10J11.J6  ID I=86  II=10
PRINT HYD           ID=11  CODE=10
*
*
ADD HYD             ID=95  HYD=J10J11J6.J9  ID I=11  II=89
PRINT HYD           ID=95  CODE=10
*
*

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```

ADD HYD          ID=90 HYD=J10J11J6J9.J5 ID I=85 II=95
PRINT HYD        ID=90 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.007
                  DIA=3.0  N=0.013
ROUTE MCUNGE      ID=91 HYD=RTE.J5J6 INFLOW ID=90
                  DT=0.0  L=350 NS=0  SLOPE=0.007
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=91 CODE=0
*
*
ADD HYD          ID=93 HYD=J1.J4 ID I=81 II=84
PRINT HYD        ID=93 CODE=10
*
ADD HYD          ID=94 HYD=J1J4.J5J6J9 ID I=91 II=93
PRINT HYD        ID=94 CODE=10
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.007
                  DIA=3.5  N=0.013
ROUTE MCUNGE      ID=92 HYD=RTE.J14569 INFLOW ID=94
                  DT=0.0  L=650 NS=0  SLOPE=0.007
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=92 CODE=0
*
*
ADD HYD          ID=95 HYD=J2.J3 ID I=82 II=83
PRINT HYD        ID=95 CODE=10
*
*
ADD HYD          ID=94 HYD=J2J3.J7 ID I=95 II=87
PRINT HYD        ID=94 CODE=10
*
*
ADD HYD          ID=96 HYD=J145679.J237 ID I=94 II=92
PRINT HYD        ID=96 CODE=10
*
ADD HYD          ID=97 HYD=J1J7.J8 ID I=96 II=88
PRINT HYD        ID=97 CODE=10
*
*
ADD HYD          ID=98 HYD=J1J8.J12 ID I=97 II=12
PRINT HYD        ID=98 CODE=10
*
*
*****
DIVIDE HYD        ID=98 Q=26.34 ID I=83  HYD NO=BYPASSJ
                  ID II=84 HYD NO=SURGEJ
PRINT HYD        ID=83 CODE=10
PRINT HYD        ID=84 CODE=10
*****
*
*
ROUTE RESERVOIR   ID=90 HYD=POND.J  INFLOW ID=84 CODE=10
                  OUTFLOW  STORAGE  DEPTH
                  0         0         5414
                  3.82      1.96      5415
                  7.20      4.70      5416
                  10.28     7.94      5417
                  100.0     11.56     5418
*

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```

PRINT HYD          ID=90 CODE=0
*
*
ADD HYD            ID=97 HYD=BYPASS.SURGEPONDJ ID I=90 II=83
PRINT HYD          ID=97 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007
                     DIA=4.0 N=0.013
ROUTE MCUNGE       ID=91 HYD=RTE.J5J6 INFLOW ID=97
                     DT=0.0 L=1100 NS=0 SLOPE=0.007
                     MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=91 CODE=0
*
*****TAOS*****
*
COMPUTE NM HYD     ID=30 HYD NO=BASIN.K5 DA=.02364 SQ MI
                     %A=0.0 %B=19.0 %C=19.0 %D=62.0
                     TP=-.1333 HR RAIN=-1
PRINT HYD          ID=30 CODE=10
*
*
COMPUTE NM HYD     ID=31 HYD NO=BASIN.K6 DA=.00220 SQ MI
                     %A=0.0 %B=5.0 %C=5.0 %D=90.0
                     TP=-.1333 HR RAIN=-1
PRINT HYD          ID=31 CODE=10
*
*
ADD HYD            ID=41 HYD=K5.K6 ID I=30 II=31
PRINT HYD          ID=41 CODE=10
*
*
*ADD HYD           ID=83 HYD=1ADCFG.JK6 ID I=27 II=91
*PRINT HYD         ID=83 CODE=10
*
*
ADD HYD            ID=43 HYD=K5K6.PONDJ I=41 II=91
PRINT HYD          ID=43 CODE=10
*
*
ADD HYD            ID=44 HYD=K5K6PONDJ.K3K4 I=43 II=25
PRINT HYD          ID=44 CODE=10
*
*
ADD HYD            ID=96 HYD=PONDJK13.K1K4 ID I=34 II=44
PRINT HYD          ID=96 CODE=10
*
*****
DIVIDE HYD         ID=96 Q=44.91 ID I=97 HYD NO=BYPASS.K
                     ID II=98 HYD NO=SURGE.K
PRINT HYD          ID=97 CODE=10
PRINT HYD          ID=98 CODE=10
*****
*
*
*
ROUTE RESERVOIR    ID=70 HYD=POND.K INFLOW ID=98 CODE=5
                     OUTFLOW STORAGE DEPTH
                     0.00 0 5404.85
                     6.79 2.60 5406
                     12.04 5.29 5407
                     16.84 9.24 5408

```

	21.30	14.84	5409
	25.48	21.67	5410

```

*
PRINT HYD          ID=70 CODE=10
*
ADD HYD            ID=99 HYD=BYPASS.ROUTE.K ID I=70 II=97
PRINT HYD          ID=99 CODE=5
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.005
                      DIA=2.5 N=0.013
ROUTE MCUNGE        ID=1 HYD=RTE.PONDK INFLOW ID=99
                      DT=0.0 L=2000 NS=0 SLOPE=0.005
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=1 CODE=0
*
*
COMPUTE NM HYD      ID=2 HYD NO=UNIVROWNORTH DA=.007266 SQ MI
                      %A=0.0 %B=5.0 %C=5.0 %D=90.0
                      TP=-.1333 HR RAIN=-1
PRINT HYD          ID=2 CODE=5
*
ADD HYD            ID=3 HYD=UNIVN.PONDK ID I=1 II=2
PRINT HYD          ID=3 CODE=5
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.005
                      DIA=2.5 N=0.013
ROUTE MCUNGE        ID=4 HYD=RTE.UNIVN INFLOW ID=3
                      DT=0.0 L=2000 NS=0 SLOPE=0.005
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=4 CODE=0
*
*
COMPUTE NM HYD      ID=5 HYD NO=UNIVROWSOUTH DA=.007266 SQ MI
                      %A=0.0 %B=5.0 %C=5.0 %D=90.0
                      TP=-.1333 HR RAIN=-1
PRINT HYD          ID=5 CODE=5
*
ADD HYD            ID=6 HYD=UNIVNS.PONDK ID I=4 II=5
PRINT HYD          ID=6 CODE=5
*
*PUNCH HYD          ID=6
*
*S*****
*
*S*****END OF TRAILS DRAINAGE ANALYSIS
*
FINISH

```